CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 18, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Oct.				
*20	Bridge	Winnipeg, Man	P., S. & B. S.	10- 4
*29	Conduit, embnkmt.	Boston, Mass.	S. & B. S.	10-11
Nov.				
1	Engineering supplies	Panama	S. & B. S.	10-18
*1	Dam, etc	Mitchell, Neb.	P., S. & B. S.	10- 4
3	Pumping mchny.	Norfolk, Va.	S.	10-11
*15	Dam, excavation.	N. Yakima, Wash.	P., S. & B. S.	9-27
*15	Canal, dam, tunnels.	N. Yakima, Wash.	P., S. & B. S.	9-27

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Oct. 20. Light plant, Napoleonville, La. ..... Oct. 11
Oct. 20. Gas holder, Egg Harbor City, N. J. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 25. Equipment, Chilocco, Okla. ..... Oct. 18
Oct. 29. Equipment, Orange, N. J. ..... Oct. 4
Advertised, Eng. News, Oct. 11 and 18.
Nov. 1. Lighting, Canastota, N. Y. ..... Oct. 11
Nov. 2. Apparatus, Cincinnati, Ohio ..... Oct. 18

BRIDGES.

Oct. 18. Bridge, New York, N. Y. ..... Oct. 11
Oct. 19. Bridge, Reading, Pa. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Oct. 19. Bridge, Augusta, Ga. ..... Oct. 18
Oct. 19. Bridge, Reading, Pa. ..... Oct. 18
Oct. 20. Bridge, Eaton, Ohio. ..... Oct. 11
Oct. 20. Steel superstructure, Winnipeg, Man. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 18.
Oct. 22. Bridges, Martins Ferry, Ohio ..... Oct. 4
Oct. 22. Bridges, St. Clairsville, Ohio ..... Oct. 11
Oct. 22. Bridge, Hopewell Cape, N. B. ..... Oct. 11
Oct. 22. Bridge, Glenwood Springs, Colo. ..... Oct. 18
Oct. 22. Bridges, New Castle, Colo. ..... Oct. 18
Oct. 22. Bridge, Ashley, Pa. ..... Oct. 18
Oct. 25. Bridge, Atlanta, Ga. ..... Sept. 13
Oct. 26. Bridges, Wauseon, Ohio ..... Oct. 11
Oct. 26. Bridge, Portland, Pa. ..... Oct. 11
Oct. 29. Bridges, Toledo, Ohio ..... Oct. 11
Oct. 29. Bridge, Avella, Pa. ..... Oct. 18
Oct. 31. Bridges, Kansas City, Mo. ..... Oct. 18
Nov. 5. Bridge, San Jose, Cal. ..... Oct. 18
Nov. 6. Bridge, Peoria, Ill. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Nov. 8. Bridges, Atlanta, Ga. ..... Oct. 4
Nov. 20. Bridge, Winnipeg, Man. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 25.

BUILDINGS.

Oct. 18. Dormitory, Athens, Ohio ..... Oct. 11
Oct. 18. Foundations, Washington, D. C. ..... Oct. 18
Oct. 19. Engine-house, New York, N. Y. ..... Oct. 11
Oct. 19. Quarters, Youngstown, N. Y. ..... Sept. 27
Oct. 20. High-school, South McAlester, Ind. T. ..... Oct. 18
Oct. 20. Disinfection house, Quebec, Que. ..... Oct. 18
Oct. 22. School, Bloomfield, Ind. ..... Oct. 18
Oct. 22. Fire house, Newark, N. J. ..... Oct. 18
Oct. 22. Guard-house, Washington, D. C. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Oct. 18.
Oct. 22. Guard-house, Washington, D. C. ..... Oct. 4
Oct. 22. School, New York, N. Y. ..... Oct. 11
Oct. 22. Wiring, Sherman, Tex. ..... Oct. 4
Advertised, Eng. News, Oct. 4 and 11.
Oct. 23. Mess hall, Washington, D. C. ..... Sept. 13
Advertised, Eng. News, Sept. 13 to Oct. 18.
Oct. 23. Administration bldg., Moores Hill, Ind. ..... Oct. 18
Oct. 23. Laundry, Wittenberg, Wis. ..... Oct. 18
Oct. 24. Auditorium, Denver, Colo. ..... Oct. 18
Oct. 24. Office building, Rapid City, S. Dak. ..... Oct. 18
Oct. 24. Library, Elroy, Wis. ..... Oct. 18
Oct. 24. Wiring, New York, N. Y. ..... Oct. 18
Oct. 24. Headquarters building, New York, N. Y. ..... Oct. 18
Oct. 24. Hospital, Utica, N. Y. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 24. Wiring, Utica, N. Y. ..... Oct. 11
Oct. 25. Factory, Philadelphia, Pa. ..... Oct. 18
Oct. 25. Mail lift, Kansas City, Mo. ..... Oct. 18
Advertised, Eng. News, Oct. 18.
Oct. 25. Baths, Lawrence, Kan. ..... Oct. 18
Oct. 29. City hall, Little Rock, Ark. ..... Oct. 18
Oct. 29. School addition, New York, N. Y. ..... Oct. 18
Oct. 30. Elevator, New York, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Oct. 31. School, Cheyenne Agency, S. Dak. ..... Oct. 11
Oct. 31. Academy, Waterloo, Que. ..... Oct. 11
Nov. 1. Officers' quarters, Fort Dupont, Del. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Nov. 1. Gymnasium, Fishers Island, N. Y. ..... Oct. 18
Nov. 1. Officers' quarters, West Point, N. Y. ..... Oct. 18
Advertised, Eng. News, Oct. 18 and 25.
Nov. 8. City hall, Caruthersville, Mo. ..... Oct. 18
Nov. 8. Storehouses, Dover, N. J. ..... Oct. 18
Nov. 8. Court-house, Bloomington, Ind. ..... Oct. 11
Nov. 8. Quarantine buildings, Portland, Me. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Nov. 9. Hardware, Indianapolis, Ind. ..... Oct. 11
Nov. 12. Heating apparatus, Superior, Wis. ..... Oct. 18
Nov. 12. Steam heating plant, Hayward, Wis. ..... Oct. 18
Dec. 20. Plans and specifications, Shreveport, La. ..... Oct. 4

WATER SUPPLY AND IRRIGATION.

Oct. 18. Pumping station, Danville, Ind. ..... Oct. 11
Oct. 19. Pipe subway, Cambridge, Mass. ..... Oct. 18
Oct. 22. Pipe, Winnipeg, Man. ..... Oct. 18
Oct. 23. Water, Port Royal, S. C. ..... Oct. 11
Oct. 24. Pipe, Reedsville, Wis. ..... Oct. 18
Oct. 24. Pipe line, Sheridan, Wyo. ..... Oct. 18
Oct. 25. Cisterns, New Orleans, La. ..... Oct. 18
Oct. 27. Water-works, Scribner, Neb. ..... Oct. 18
Oct. 27. Water gate, Washington, D. C. ..... Oct. 11
Oct. 29. Pipe, Atlantic City, N. J. ..... Oct. 18
Advertised, Eng. News, Oct. 18.
Oct. 31. Pipe, Lancaster, Ohio ..... Oct. 11
Oct. 31. Water-works, Whiterocks, Utah ..... Oct. 4
Oct. 31. Boilers, New York, N. Y. ..... Oct. 18
Nov. 3. Water tunnel, Chicago, Ill. ..... Oct. 18
Advertised, Eng. News, Oct. 18 to Nov. 1.
Nov. 7. Pumping station, New York, N. Y. ..... Oct. 18
Nov. 8. Pump, Yonkers, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Nov. 9. Tunnel, Boston, Mass. ..... Oct. 18
Advertised, Eng. News, Oct. 18 and 25.
Nov. 12. Cast-iron pipe, Holyoke, Mass. ..... Oct. 11
Advertised, Eng. News, Oct. 18.
Nov. 14. Filtering materials, Philadelphia, Pa. ..... Oct. 18
Advertised, Eng. News, Oct. 18 and 25.
Nov. 15. Reservoir, Ft. Wingate, N. Mex. ..... Oct. 18
Nov. 21. Pumping engine, Brockton, Mass. ..... Oct. 18
Advertised, Eng. News, Oct. 18 to Nov. 8.

SEWERAGE.

Oct. 18. Pumping station, Danville, N. J. ..... Oct. 11
Oct. 18. Sewers, New York, N. Y. ..... Oct. 11
Oct. 18. Sewers, Washington, D. C. ..... Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 20. Sewer, Des Moines, Iowa ..... Oct. 18
Oct. 22. Sewers, Ames, Iowa ..... Oct. 18
Oct. 22. Sewers and pumping station, Plainfield, N. J. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Oct. 23. Sewers, Buffalo, N. Y. ..... Oct. 18
Oct. 23. Sewers, Cleveland, Ohio ..... Oct. 18
Oct. 24. Sewers, New York, N. Y. ..... Oct. 18
Oct. 24. Sewer, Hoboken, N. J. ..... Oct. 18
Oct. 24. Sewers, Downers Grove, Ill. ..... Oct. 18
Oct. 25. Sewers, Denver, Colo. ..... Oct. 18
Oct. 30. Sewer, Des Moines, Iowa ..... Oct. 18
Oct. 31. Sewers, Sheridan, Wyo. ..... Oct. 18
Oct. 31. Drain, Regina, Sask. ..... Oct. 18

REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

Construction News Department

Nov. 6. Sewers, Cleveland, Ohio ..... Oct. 18
Nov. 6. Sewers, Dawson, Ga. ..... Oct. 11
Nov. 7. Filters, Philadelphia, Pa. ..... Oct. 11
Advertised, Eng. News, Oct. 11, 18 and Nov. 1.
Nov. 7. Sewer, Cincinnati, Ohio ..... Oct. 18
Nov. 8. Pump, Yonkers, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Nov. 19. Sewer and outfall, Los Angeles, Cal. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Nov. 19. Sewer, Los Angeles, Cal. ..... Oct. 18

STREETS AND ROADS.

Oct. 18. Paving, Portchester, N. Y. ..... Oct. 11
Oct. 19. Sidewalks, Washington, D. C. ..... Oct. 4
Oct. 20. Macadam road, Greencastle, Ind. ..... Sept. 27
Oct. 20. Grading, Terre Haute, Ind. ..... Oct. 11
Oct. 22. Macadam, Darlington, Md. ..... Oct. 18
Oct. 22. Paving, etc., New Orleans, La. ..... Oct. 18
Oct. 22. Roads, Newtown, Conn. ..... Oct. 18
Oct. 23. Macadam, Wilmington, Del. ..... Oct. 18
Oct. 22. Grading, Syracuse, N. Y. ..... Oct. 18
Oct. 22. Granite blocks, Cincinnati, Ohio. ..... Oct. 18
Oct. 23. Road work, Oakdale, Pa. ..... Oct. 18
Oct. 23. Macadam, Rockville, Md. ..... Oct. 18
Oct. 23. Macadam, Salisbury, Md. ..... Oct. 18
Oct. 24. Walks, St. Louis, Mo. ..... Oct. 18
Oct. 24. Sidewalks, Downers Grove, Ill. ..... Oct. 18
Oct. 24. Grading, Youngstown, Ohio ..... Oct. 18
Oct. 25. Grading, Estacada, Ore. ..... Oct. 11
Oct. 26. Paving, New York, N. Y. ..... Oct. 18
Oct. 29. Sidewalks, Syracuse, Ind. ..... Oct. 18
Oct. 29. Grading, Tacoma, Wash. ..... Oct. 18
Oct. 30. Paving, Des Moines, Iowa ..... Oct. 18
Oct. 31. Macadam, Kansas City, Mo. ..... Oct. 18
Oct. 31. Road work, Albany, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 to 25.
Oct. 31. Roadway, Grand Rapids, Mich. ..... Sept. 27
Oct. 31. Road, Byron, Mich. ..... Oct. 4
Nov. 1. Macadam, Highlands, N. J. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 25.
Nov. 3. Grading, Colorado Springs, Colo. ..... Oct. 18
Nov. 5. Gravel roads, Crownpoint, Ind. ..... Oct. 18
Nov. 5. Paving, Johnstown, N. Y. ..... Oct. 18
Nov. 8. Gravel roads, Chehalis, Wash. ..... Oct. 18

MISCELLANEOUS CONTRACTS.

Oct. 18. Fire alarm system, Petersboro, Ont. ..... Oct. 4
Oct. 19. Cement, New York, N. Y. ..... Oct. 11
Oct. 19. Rubber fire hose, New York, N. Y. ..... Oct. 11
Oct. 20. Embankment, East St. Louis, Ill. ..... Oct. 11
Oct. 20. Breakwater, Goderich, Ont. ..... Oct. 11
Oct. 20. Crematories, Salem, N. J. ..... Sept. 27
Advertised, Eng. News, Sept. 27 and Oct. 4.
Oct. 22. Pier, Norfolk, Va. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 22. Dredging plant, Detroit, Mich. ..... Oct. 11
Advertised, Eng. News, Oct. 4 to 18.
Oct. 23. Naval supplies, Washington, D. C. ..... Oct. 4
Oct. 23. Tunnel entrance, Boston, Mass. ..... Oct. 11
Oct. 23. Subway, Reading, Pa. ..... Oct. 18
Advertised, Eng. News, Oct. 18.
Oct. 24. Ditch, Danville, Ill. ..... Oct. 18
Oct. 24. Railway work, Belgium (Foreign) ..... Oct. 11
Oct. 25. Moorings, Tompkinsville, N. Y. ..... Oct. 11
Oct. 25. Test borings, New York, N. Y. ..... Oct. 18
Oct. 25. Cement, St. Andrews, Man. ..... Oct. 18
Oct. 26. Bulkhead New York, N. Y. ..... Oct. 18
Oct. 27. Revetment wall, Owen Sound, Ont. ..... Oct. 11
Oct. 29. Conduit, embankment, Boston, Mass. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.
Oct. 29. Crematory, Delaware City, Del. ..... Oct. 4
Advertised, Eng. News, Oct. 4 to 18.
Oct. 29. Ditches, Alexandria, Minn. ..... Oct. 18
Oct. 30. Drains, Sac City, Iowa ..... Oct. 18
Oct. 30. Naval supplies, Washington, D. C. ..... Oct. 4
Nov. 1. Dam, etc., Mitchell, Neb. ..... Oct. 11
Advertised, Eng. News, Oct. 4 to 25.
Nov. 1. Timber flooring, New York, N. Y. ..... Oct. 18
Nov. 1. Portland cement, Lascruces, N. Mex. ..... Oct. 18
Advertised, Eng. News, Oct. 18 and 25.
Nov. 1. Engineering supplies, Panama ..... Oct. 18
Nov. 3. Crane, Charleston, S. C. ..... Oct. 18
Nov. 3. Light vessel, Washington, D. C. ..... Oct. 18
Nov. 6. Subway substructure, Toronto, Ont. ..... Oct. 4
Advertised, Eng. News, Oct. 4 and 11.
Nov. 6. Railway, Spain (Foreign) ..... Aug. 30
Nov. 8. Canal work, Albany, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 to Nov. 1.
Nov. 9. Canal work, Albany, N. Y. ..... Oct. 11
Advertised, Eng. News, Oct. 11 to Nov. 1.
Nov. 10. Light vessel, Washington, D. C. ..... Oct. 18
Nov. 13. Cranes, Washington, D. C. ..... Oct. 11
Nov. 15. Canal, dam, tunnels, N. Yakima, Wash. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Nov. 1.
Nov. 15. Dam, excavation, N. Yakima, Wash. ..... Sept. 27
Advertised, Eng. News, Sept. 27 to Nov. 1.
Nov. 15. Steel bars, etc., Lascruces, N. Mex. ..... Oct. 18
Advertised, Eng. News, Oct. 18 to Nov. 8.
Dec. 12. Ship canal, Panama ..... Oct. 18
Dec. 1. Garbage reduction, Spain (Foreign) ..... Oct. 11
Advertised Eng. News, Oct. 4 and 11.
Mar. 18. ('07). Tunnel, New Zealand (Foreign) ..... Sept. 13
Advertised, Eng. News, Sept. 13 to Mar. 14.
Apr. 12 ('07). Ditches, Brookings, S. Dak. ..... Oct. 18
No date. 21 miles grading, Natchez & Eastern Ry. ..... Oct. 11
Advertised, Eng. News, Oct. 11 and 18.

CIVIL SERVICE EXAMINATIONS.

Oct. 24. Engr. and Carpenter, Nebraska ..... Oct. 11
Oct. 30. Topographic Draftsman, Wash., D. C. ..... Oct. 11
Oct. 30. Cartographic Draftsman, Wash., D. C. ..... Oct. 11
Oct. 30. Clerk Draftsman, Washington, D. C. ..... Oct. 11
Oct. 30. C. E. & Supt. Construction, Wash., D. C. ..... Oct. 18
Oct. 31. Chief, Water Bureau, Philadelphia, Pa. ..... Oct. 11
Advertised, Eng. News, Oct. 11.
Nov. 7. Topographic Draftsman, Panama ..... Oct. 18

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AMADOR RAILROAD.—Incorporated in California to acquire the Ione & Eastern Railroad and complete it from Ione east to Martels and north to Bartons, a distance of 33 miles. Capital stock, $1,250,000. Incorporators: Joseph L. Scotchler, Charles B. Mills, John C. Sullivan, James F. Peck, all of Berkeley; T. N. Harvey, of Oakland, and T. Harnes and Louis A. Borger, of San Francisco.

ATHENS TERMINAL.—This company has applied for a charter in Georgia to build a belt line two miles long at Athens, Ga. Incorporators: William W. Mackall, T. M. Cunningham, Jr., H. W. Johnson, W. V. Davis, J. H. Strous, George H. Richtter, all of Savannah; William E. Eppes, of Clark County; and E. B. Eppes and E. L. Douglas, of Hall County.

ATLANTA, BIRMINGHAM & ATLANTIC.—The Eastern Railway of Alabama and the Alabama Northern Railway, forming a line from Talladega to Ashland, Ala., 32 miles, have been acquired by the Atlanta, Birmingham & Atlantic, and will be operated as part of its Alabama division.

BALTIMORE & OHIO.—A contract for steel rails for the ensuing year was placed on Oct. 15, by the operating department of the Baltimore & Ohio Railroad Co. The amount estimated as needed is 66,000 tons. The contract has been divided with three companies, as follows: MARYLAND STEEL CO., 11,500 tons; CAMBRIA STEEL CO., 17,400 tons; THE CARNEGIE STEEL CO., 37,100 tons. Of this order, 41,000 tons will be 85-lb. rails and the balance 100 lbs. Delivery of the rails will begin in February and likely be completed some time during July. Estimated cost, $1,850,000.

CARO NORTHERN.—Incorporated in Texas with $1,000 000 capital to build a line from Caro, Nacogdoches County, on the Southern Pacific, north to Mount Enterprise, a new town in Rusk County. The incorporators include M. W. Jones and C. H. Morris, of Winnsboro; W. T. March and W. G. Ross, of Mount Enterprise; W. W. Whiteman, of Ardmore, Ind. T., and others.

CHANDLER & OKMULGEE.—This company has been incorporated in Oklahoma to build a railroad from Chandler, Okla., to Okmulgee, Ind. T., to connect with the Ozark & Cherokee Central, which is controlled by the St. Louis & San Francisco. Capital stock, $150,000. Incorporators: Lee Patrick, Stroud, Okla.; Frank Dimon, H. B. Gillstrap, F. R. Hoyt, W. W. Gulick, George B. Rittenhouse and M. D. Owens, all of Chandler, Okla.

COLORADO & SOUTHERN.—By construction and purchase the company has outlined a plan for reaching tidewater at Galveston, Tex., as follows, according to the report for year ending June 30, 1906: Trinity & Brazos Valley from Cleburne, Tex., to Mexia, 79 miles. Extension of that road now in progress, which is to be completed in November, to Belt Junction near Houston, Tex., 157 miles; trackage rights for the same road over the Gulf, Colorado & Santa Fe from Fort Worth to Cleburne, 28 miles, and from Houston to Galveston, 53 miles; a total of 317 miles. This will provide the shortest through line between the Rocky Mountain section and tidewater. In addition to the above the Trinity & Brazos Valley is building a line from Teague, 14 miles southeast of Mexia, north to Waxahachie, 67 miles, which is to be finished by the first of next year. By a trackage contract over the Missouri, Kansas & Texas from Waxahachie to Dallas, 31 miles. This will make the shortest line from Dallas to Galveston, as well as the shortest line between Fort Worth and Galveston. The company during the year has secured the Colorado Springs & Cripple Creek District Railway, 75 miles, and the Fort Collins Development Railway, of Colorado, 16 miles. It has nearly completed negotiations on satisfactory terms to buy the Wichita Falls & Oklahoma, operating from Red River to Wichita Falls, Tex., 22 miles; also the Wichita Valley Railway, extending from Wichita Falls to Seymour, Tex., 53 miles. It is also intended to buy the following roads now under construction: Wichita Valley from Seymour, Tex., to Stamford, 60 miles, and the Abilene & Northern from Stamford to Abilene, 38 miles, a total of 173 miles. The company with all these lines will have approximately 2,250 miles of road, besides its half interest in the Colorado Midland, which operates 336 miles. A contract has been entered into with the Rock Island Co. whereby the latter has taken a half interest in the Trinity & Brazos Valley. J. H. Young is Gen. Mgr., and H. W. Cowan is Ch. Engr., at Denver, Colo.

DELAWARE & HUDSON.—It is announced that this company will spend approximately $6,000,000 within the next two years on improvements in the Lackawanna and Wyoming Valleys, including the four-tracking of the road north of Scranton to Carbondale, Pa. The whole division will be regraded. An entirely new double-track line will be built from a point near Moosic to a connection with the Plymouth branch south of Wilkes-Barre, Pa. James MacMartin is Ch. Engr., Albany, N. Y.

GEORGIA COAST & PIEDMONT.—Company has under consideration the question of building an extension to Brunswick, Ga. L. K. Emerson is Supt., Darien, Ga.

GRAND TRUNK PACIFIC.—Surveys are being made by this company for the line to connect Regina, Sask., and Brandon, Man., and construction work is to be started as soon as surveys are completed. B. B. Kelliher is Ch. Engr., at Montreal, Que.

HAMPSHIRE & SOUTHERN.—Contracts will be let about Jan. 1 for building this company's projected railway from Romney to Petersburg, W. Va., 38 miles. Surveys are under way. A. Spates Brady is Ch. Engr., at Romney, W. Va. Noted on Sept. 13.

MASON & OCEANA.—An extension may be built to Grand Rapids, Mich. O. Wrege is Ch. Engr., and C. E. Butters is Supt., at Buttersville, Mich.

MIONA SPRINGS RY.—We are officially advised by J. R. Lane, Vice-Pres. and Gen. Mgr., Fort Valley, Ga., that work has just been commenced on this road, which is to extend from Fort Valley to Southland, Ga., a distance of 30 miles. The company is doing its own work. Mr. Lane is in charge of construction.

MISSISSIPPI.—The Tatum Lumber Co., of Hattiesburg, Miss., will build a 3-mile railroad from Bonhomie, Miss., through timber lands to a connection with the Gulf & Ship Island R. R.

C. D. Smith & Co. and John Scott & Sons, who have the general contract for 50 miles of railroad work between Smith's Ferry, opposite Brookhaven, and Jackson, Miss., wish to sublet to any size outfit. Smith & Co.'s address is Memphis Trust Bldg., Memphis, Tenn., and Scott & Sons may be addressed care of the Western Wheel Scraper Co., St. Louis, Mo.

MORGANTOWN & SOUTHERN.—Surveys have been commenced for this road from Morgantown to Fairmont, W. Va., 25 miles. J. W. Wiles is Pres., and Edward Herd, Ch. Engr., both of Morgantown, W. Va.

NORFOLK & SOUTHERN.—A meeting is to be held Oct. 16 by the stockholders of this company and the Virginia & Carolina Coast to vote on a proposition to increase the capital stock from $2,000.000 to $3,000,000, to secure funds for an extension of the road from Edenton, N. C., to a point near the northwestern boundary of that state; to authorize to sell to the Atlantic & North Carolina Co. the Pamlico, Oriental & Western; and to sell to the John L. Roper Lumber Co. a portion of the Virginia & Carolina Coast line south of Winthrop, N. C.

PORT ARTHUR & HOUSTON SHORT LINE.—Company has authorized the issue and sale of $2,000.000 of bonds for construction. It is said that work is to begin by Nov. 1. Among those interested are C. S. Cleaver, Vice-Pres.; O. A. Blackwell, Secy.; H. F. Best, P. Falkenberg, J. D. Greenbaum, of Chicago; and A. W. Mackey and D. L. Stump.

ST. JAMES BAY RY.—Early this autumn the St. James Bay Railway will be opened between Toronto, Ont., and Parry Sound. Next year this road will be extended north to Moose Mountains, where valuable iron ores are located. William Mackenzie and D. D. Mann, of Toronto, control the mining assets of the Moose Mountain mines. From Toronto to Moose Mountains the distance is 296 miles.

ST. JOSEPH & GRAND ISLAND.—A special meeting of the stockholders will be held at Elwood, Kan., on Oct. 16 to vote upon the proposition of authorizing the construction of a branch from a point on the main line at Stouts to Highland, Kan. F. W. Russell, St. Joseph, Mo., is Secy.

SOUTHERN RY.—A party is in the field making a survey for a line from Belzona to Vicksburg, Miss. All but about six miles of the preliminary survey has already been completed. Ed. Durham, of Vicksburg, Miss., is in charge of this work.

TAMPA & JACKSONVILLE.—We are officially informed that the AMERICAN CONSTRUCTION CO., of Gainesville, Fla., has contract to build the line from Fairfield to Tampa and from Sampson City to Jacksonville, Fla., a distance of 145 miles. Subcontracts will be let. Fifteen miles are graded. S. F. Parrett is Pres., Macon, Ga. O. W. Pegee is Ch. Engr., and C. W. Atkinson, Gen. Mgr., both of Gainesville, Fla. Noted on Sept. 6.

TEMISKAMING & NORTHERN ONTARIO.—Bids were received by H. W. Pearson, Secy.-Treas., 25 Toronto St., Toronto, Ont., on Oct. 2, for all the work except tracklaying and ballasting connected with the building of branch lines, and contracts were awarded as follows: (1) From the main line near Cobalt to the Kerr Lake region, a distance of approximately four miles—A. SPENCER, Niagara Falls, Ont. (2) From the main line to a point at or near Haileybury Wharf, a distance of about 1¾ miles—McQUIGG & HUNT, Arnprior, Ont. (3) From the main line near Englehart to the Village of Charlton, a distance of about eight miles—CANADIAN CONSTRUCTION CO., of Montreal, Que.

TEXAS.—E. K. Stimson, Houston, Tex., advises us that a company will be chartered, probably under title of the Taylor, Brenham & Houston Ry., to build a railway from Taylor to Lexington, Dime Box, Brenham and Houston, 71½ miles. Mr. Stimson will be the chief engineer. Preliminary surveys are under way. Right-of-way is guaranteed. J. A. Thompson and M. R. Hoxie, of Taylor; and D. C. Giddings and H. Milroy, of Brenham.

TRANS-CONTINENTAL.—Bids probably will be called for in November for construction of about 500 miles of road as follows: Superior Junction, eastward; La Tuque, westward; Quebec, eastward; 200 miles, east and west of Lake Abittibi.

WHEELING & LAKE ERIE.—The McGINTY CONSTRUCTION CO., of Minerva, Ohio, has been awarded contract for a 3-mile single track branch line to Malvern, Ohio.

WICHITA FALLS & NORTHWESTERN.—The J. P. NELSON CONSTRUCTION CO., of San Antonio, Tex., has been awarded the contract for building this road from Wichita Falls, Tex., north into Comanche County, Okla., 25 miles. Grading is to begin at once. The city of Wichita Falls has guaranteed a bonus of $10,000, right-of-way and terminal grounds in the city. R. E. Huff, of Wichita Falls, is one of the officers. Noted on Oct. 4.

WABASH.—The Chicago "Tribune" states that a special meeting of the stockholders of the Wabash Ry. will be held in Chicago on Oct. 22, at which it is proposed to authorize a bond issue of $200,000,000. About $70,000,000 of the sum will be used to retire bonds now in existence. The rest will be expended in making extensive improvements in the system, the bonds being sold and the money realized as it is required. One of the chief improvements planned is the completion of the double-tracking of the line between Chicago and St. Louis. The construction of a double-track between Decatur and Taylorville, Ill., is now under way, and will be completed, it is expected, before cold weather. When this is done one-third of the Wabash line between Chicago and St. Louis will have double track. It is expected that the double-tracking of the entire line between these points will be completed within two years. New track will be laid between the various points on the line where the traffic is heaviest. The next piece of double track to be constructed will be between Taylorville and Litchfield, Ill. A. O. Cunningham is Ch. Engr., at St. Louis, Mo.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

NORWICH, CONN.—At a recent meeting of the incorporators of the Lebanon Street Ry. Co., in this city, at the office of Charles W. Comstock, the Lebanon Street Railway Co. was organized, and the following directors were chosen: N. C. Barker, F. B. Fowler, L. E. Livermore, G. H. Hewitt, Isaac Gillette, S. W. Troop, J. Henry King, John Clark and L. R. Smith. At a subsequent meeting the directors chose officers as follows: Pres., J. E. Livermore, of Lebanon; L. R. Smith, of Lebanon, Secy. and Treas. The company voted to accept the charter which was granted by the last Legislature. Financing of the road will be undertaken at once. It is said that the eleven miles of road can be built for $250,000.

NIAGARA FALLS, N. Y.—Edward H. Perry, of Niagara Falls, Supt. New York State Reservation, states that only one bid was received and opened on Oct. 6 for the construction work of a new station and the reconstruction of the inclined railway at the State Reservation, Niagara Falls, and it was rejected as being in excess of the appropriation. It is proposed to ask G. L. Heins, State Arch., at Albany, for new plans and new bids will be received after plans are prepared. Noted on Sept. 27.

SHERRARD, W. VA.—The Wheeling, Sherrard & Cameron Interurban Electric Railway Co. has been incorporated with $25.000 capital to build a line in Ohio and Marshall Counties. The incorporators are Melvin Powell, Thomas Montgomery, W. R. Allen, Alex. D. Hood, D. M. Garvin, Charles Baker, C. M. McCombs, William Behrens, Henry Remke and R. C. Karpfer, all of Sherrard.

TAMPA, FLA.—The Wm. H. Evers Engineering Co., of Cleveland, Ohio, has been granted a franchise to build an electric railway from Tampa to Bartow, Fla., 40 miles. This line also will connect with Plant City, Mulberry and Lakeland. E. C. Stuart and associates represented the company in applying for the franchise.

MIAMI, FLA.—J. H. Tatum, Vice-Pres. of the Miami Electric Railway Co., announces that a mortgage has been filed for the Empire Trust Co., of New York, to secure $250,000 of 7% 20-year bonds. Part of these will be sold, the proceeds to be used for extending the tracks. H. C. Roome, of New York, is Pres.

ST. PETERSBURG, FLA.—The Bayboro Investment Co. has been granted a franchise for an electric railway from St. Petersburg to Point Pinellas, along Tampa Bay.

MONROE, LA.—The city of Monroe will extend its street car line about 3¼ miles to the locks and dams now being built, sufficient money having been subscribed by property owners along the proposed line. Work will probably commence within 30 days.

PADUCAH, KY.—Mayor D. A. Yeiser announces that a street railway franchise will be sold by the city at auction on Oct. 26, in accordance with a recent ordinance.

MOUNT VERNON, OHIO.—The Galion Southern Railway Co. has been granted a 20-year franchise for an entrance into Mount Vernon. The ordinance allows 30 months in which to begin work. The provision in the franchise is that city authorities are to have free transportation between Mansfield and Galion when on official business. J. W. Atkinson, of Fredericktown, Ohio, is Ch. Engr.

COLUMBUS, OHIO.—The Ohio & Southern Traction Co. has been incorporated, with $75,000 capital stock, by Dr. S. B. Hartman, F. W. Schumacher, James M. Butler, W. D. Baker and J. A. Hedges. The company proposes to build from the outskirts of Columbus to the Hartman farm, about 20 miles southwest of the city.

FORT WAYNE, IND.—The Fort Wayne & South Bend Railway Co. has been incorporated with a capital stock of $2,500,000 to construct and operate an electric railway connecting Fort Wayne, Churubusco, Merriam, Wolf Lake, Kimmell, Wawasee, Syracuse, Nappanee, Mishawka and South Bend, and also to construct, acquire and operate street railway systems in the above-named towns and cities, and to produce, sell, distribute and supply electric light, heat and power for domestic and commercial purposes. John H. Grisamer, Gustavis A. Wulkap, Chas. A. Shorly, E. B. Swift, Perry A. Randall, W. F. Dinnen, Chas. M. Neizer, Val. Brown and Fay P. Randall are directors.

LAFAYETTE, IND.—The County Commissioners have granted a franchise to the Lafayette & Hoopston Interurban Ry. for the right-of-way through Tippecanoe County, with the provision that the line be in operation within two years. The franchise is for a period of 50 years. The company's headquarters are at Otterbein, Ind.

SOUTH BEND, IND.—The Winona & Maxinkuckee Electric Ry. Co. has been incorporated to build a line from Culver to Warsaw. Edwin P. Taylor, S. S. Perley and T. P. Moredock are directors.

CHICAGO, ILL.—The Cleveland Construction Co., of Cleveland, Ohio, will be in charge of engineering work connected with construction of the Chicago, Lake ... & South Bend Traction Co.'s line. ... Hanna, of Cleveland, is the promoter. ... estimated cost is $3,000,000.

The Chicago, Desplaines & ... River Railroad Co. is preparing to ... spring of 1907 on its proposed ... in the Chicago to McHenry, Ill., and ... from Chicago to Lake Geneva, Wis. The contracts ... steel and fittings have been let, but ... thread or equipment contracts have been ... H. L. Emerson, Chamber of ... Bldg., Chicago, is Engr.

JANESVILLE, WIS.—Cloug... of Chicago, have telegraphed their ... representatives to stop all negotiations ... proposed Janesville-Madison ... line. This is the result of an unfa... franchise granted the company by the ... City Council, and puts an end to ... proposed continuous interurban from Ch... Madison via Rockford.

OMAHA, NEB.—W. J. Dobb... Taber, Iowa, Pres. of the electric com... and F. M. Clarke, Treas. of the Omaha ... Commercial Club, are negotiating for ... capital for the Council Bluffs, Taber ... Northern electric line to be built from Oma... Ia., to Tarkio, Mo. Favorable reports ... been made by S. W. Craig, Engr., on ... proposed line from Council Bluffs to Tar... and on a branch to Hornbury, Iowa, a ... distance of 76 miles.

CHICKASHA, IND. T.—The ... Chickasha Street Railway Co. has been offered ... bonus of $25,000 by the Chickasha Commercial Club to build an electric railway from ... Chickasha via Verden to Anadarko, Okla.

BEAUMONT, TEX.—The County Commissioners have granted a franchise for an electric railway from Beaumont to Port Arthur via Spindle Top, Port Neches and Nederland. Among those interested are R. A. ... Greer, A. L. Williams and E. A. McDowell of Beaumont, and George M. Craig, R. ... Woodworth and F. T. Ireland, of Port Arthur. Construction must begin within ... months.

FRESNO, CAL.—We are officially advised that surveys are in progress for the proposed extension to the Fresno Traction Co.'s system, from Fresno to Yosemite, via Wawona, about 105 miles. Right-of-way is practically all secured. A. G. Wishon is Vice-Pres. and Gen. Mgr., Fresno. J. H. Newman is Ch. Engr., Los Angeles.

NAMPA, IDAHO.—The City Council has granted a franchise to W. E. Pierce, of Boise, and associates, to build an electric railway on certain streets of the city. With the exception that the streets are different, the franchise is the same as that granted the Noble-Ustick Co. several weeks ago. Mr. Pierce, Pres. of the Boise & Interurban Ry. Co., Ltd., recently advised us that capital was secured and right-of-way for this line, which is to be extended from Boise to Nampa, 20 miles. Total length of the railway, including line to Caldwell and in city of Boise, will be 56 miles. F. H. Knox is Ch. Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

CHARLESTOWN, N. H.—Surveys have been made and plans are being prepared for a municipal electric light plant for this city. N. C. Dodge is chairman of the committee in charge, and A. W. Dudley is Engr.

WATERBURY, CONN.—The Chase Rolling Mill Co., manufacturers of sheet and rod brass, has drawn plans for a new power plant. The specifications call for a fireproof building 25 ft. high, 55 × 123 ft.

The Connecticut Railway & Lighting Co. will erect a power station. D. B. Neth is Supt.

NEW YORK, N. Y.—The COMMERCIAL CONSTRUCTION CO., of 1 Madison Ave., has been awarded the contract for installing the electric equipment in addition to and alterations in the teachers' training school, Boro. of Brooklyn, for $21,685.

FULTON, N. Y.—The Oswego River Power Transmission Co. has applied for a franchise to construct a system in and through the streets of the city to transmit electricity for light, heat and power.

NEW YORK, N. Y.—It is reported that John C. Sheehan has announced that a plant to furnish electric light and power in opposition to the Consolidated Gas Co. would be constructed as the result of the securing by him and his associates of the franchises of the Manhattan Transit Co. and the Long Acre Light & Power Co. A syndicate is reported to have undertaken to underwrite $5,000,000 bonds, and his company has made arrangements for all the money needed.

It is reported that the General Electric Co. will increase its capital stock by $10,000,000.

HARRISON (Newark post-office), N. J.—Plans for the large terminal and electric power station to be built here by the Pennsylvania Railroad are completed, and active work will be begun at once. D. S. Newhall, of Philadelphia, is Pur. Agt.

PAULSBORO, N. J.—FRANK D. MOSES, of Trenton, N. J., has been awarded the contract for erecting the gas plant in this city. W. H. Boardman is Engr.-in-Charge. Cost, $24,718.

PHILADELPHIA, PA.—The contract for the erection of the large generator house for the United Gas Improvement Co. has been awarded to JOHN R. WIGGINS & CO. The building, which will cost about $[illegible],000, will be of concrete construction, with exterior walls of brick and stone. It will be three stories high and will cover an area 90 × 140 ft., and be erected at Tioga and Richmond Sts.

H. J. Webster, Engr., Harrison Bldg., has received bids for a power house to be erected in Manayunk for Wm. Radcliff. It is to be a 1-story concrete and steel building of fireproof construction.

READING, PA.—The Mahanoy City Council has awarded the contract for street lighting for ten years to the PEOPLE'S LIGHT, HEAT & POWER CO., at $80 per arc lamp.

SYKESVILLE, MD.—Newton & Painter, Engrs., Professional Bldg., Baltimore, will prepare plans for a central power plant for the Maryland Hospital for Insane. It is to be a 1-story concrete building.

NORFOLK, VA.—The following bids were received Oct. 5 by the Bureau of Yards and Docks, Navy Department, for power-plant machinery, Navy Yard, Norfolk, Va.: Mosher Water Tube Boiler Co., 1 Broadway, New York, N. Y., item 3, $57,000, Mosher boilers, R. stokers, mechanical draft. James D. Cooke, Colorado Bldg., Washington, D. C., item 4, $61,500, Atlas boilers, Foster superheaters; (6) $61,500, Roney stokers; (5) $59,000, Atlas boilers, 300 reinforced steel concrete chimney; (9) $20,457, Wheeler condensers; (12) $4,500. C. L. deMuralt, 114 Liberty St., New York, N. Y., (1) $[illegible] wet vacuum system, stack; draft, $88[illegible] wet vacuum system, stack; (2) $63,650, vacuum system, mechanical draft, $[illegible] dry vacuum system, stack; (4) $61,7[illegible] Atlas boilers, Foster superheaters, Roney stokers; (6) $59,000, Atlas boilers, Foster superheaters, Roney stokers, concrete steel stack; (9) $27,000, Wheeler condensers; (10) $29,000, Wheeler condensers; (12) $4,300. Niles-Bement-Pond Co., crane; (13) $200, deduct from items 4 and 6 if Murphy stokers are used, $1,[illegible] add to items 4 and 6 if Heine boilers are used. Babcock & Wilcox Company, 85 Liberty St., New York, N. Y.; item 3, $63,195, Babcock & Wilcox boilers and superheaters, Roney stokers; $59,292, Stirling boilers and superheaters, Roney stokers; (5) $63,727, B. & W. boilers and superheaters, Roney stokers, steel stack; $62,792, B. & W. boilers and superheaters, Roney stokers, concrete stack; $59,976, Stirling boilers and superheaters, Roney stokers, steel stack; $59,045, Stirling boilers and superheaters, Roney stokers, concrete stack; deduct $886 if Ross stokers are used, $2,163 if Foster superheaters are used in place of B. & W., $1,770 if Foster superheaters are used instead of Stirling. Edgemoor Iron Co., Wilmington, Del., item 3, $57,800, Edgemoor boilers, Foster superheaters, Wetzel stokers; (5) $58,050, concrete steel stack. Heine Safety Boiler Co., 1120 Pennsylvania Bldg., Philadelphia, Pa., item 3, $56,263, Heine boilers, Foster superheaters, Roney stokers; deduct $1,117 if Murphy furnaces are used, deduct $300 if Wetzel stokers are used; (6) $58,295, self-supporting lined steel stack; deduct $1,810 if plain steel stack is used, deduct $455 if American Steiler improved reinforced steel concrete chimney is used, deduct $610 if Weber steel concrete chimney is used, add $2,400 if Alphons Custodis chimney is used. Henry R. Worthington, 114 Liberty St., New York, N. Y., item 9, $32,750, wet vacuum system; (10) $31,750, dry vacuum system, $31,250, straight line tight pumps, $30,925, straight line tight pumps, smaller size. D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, Pa., item 1, $88,266, Stirling boilers, Ross or Murphy stokers, Wheeler condensers, add $950 if Roney stokers are used; (5) $59,771, concrete chimney; (9) $26,600; (12) $3,900, Northern Engineering crane; (13) $88,900, same as items 5, 9 and 12.

FREDERICKSBURG, VA.—The Fredericksburg water-power plant, owned by Joseph F. Swift, of Wilmington, Del., has been sold to a syndicate of Southern capitalists for $125,000. The power will be developed and several large dams built across the river between the one just above the city and Germania bridge.

MANCHESTER, VA.—The Electric Light Committee of Council is reported to be considering the feasibility of constructing an electric light plant.

CHARLESTON, S. C.—The following bids were received Oct. 15 by the Bureau of Yards and Docks, Navy Department, for machinery for central power station, Navy Yard, Charleston, S. C.: Lumsden & Van Stone Co., 71 High St., Boston, Mass., item 1, $142,000, Heine boilers, Foster superheaters, Roney stokers, Worthington condensers; (2) $127,000; (3) $137,000; (4) $128,000; (5) $141,000; (6) $141,000; (7) $136,000; (8) $140,000; (9) $130,000; (10) $137,000. C. L. deMuralt, 114 Liberty St., New York, N. Y., item 1, $108,000, Atlas boilers, Foster superheaters, Roney stokers, Wheeler condensers; (3) add $1,000 if Heine boilers are used, deduct $500 if Murphy stokers are used, deduct $1,500 if Wheeler wet system of condensing apparatus is used; (5) $102,000; (6) $93,000; (7) $84,000. E. Rutzler Co., 127 White St., New York, N. Y., item 1, $124,953, Heine boilers, Foster superheaters, Roney stokers, Worthington condensers, $115,075, Heine boilers, Wheeler condensers; (2) $119,592; (3a) $126,510, same as item 1, except Atlas boilers; (3b) $114,814, same as 3a, except Wheeler condensers, link-belt coal conveyors; (3c) $124,075, same as item 1, except Murphy furnaces; (3d) $126,985, same as item 3a, except Sturtevant economizers; (3e) $125,474, same as item 1, except Sturtevant economizer; (3f) $124,534, same as item 3c, except Sturtevant economizer; (3g) $115,263, same as 3b, except Sturtevant economizer; (3h) $125,922, same as 3e, except Sturtevant economizer; (3i) $124,068, same as 3e, except variation in Worthington condensers; (3k) $123,117, same as 3f, except variation in Worthington condensers; (3l) $112,856, same as 3g, except variation in Worthington condensers; (3m) $124,516, same as 3h, except variation in Worthington condensers; (4a) $125,527, same as item 1, using Atlas boilers; (4b) $111,283, same as item 4a, using Wheeler condensers, link-belt coal conveyors; (4c) $118,395, same as item 1, using Murphy furnaces; (4d) $125,975, same as item 4a, using Sturtevant economizer; (4e) $119,794, same as item 1, using Sturtevant economizer; (4f) $118,844, same as item 4c, using Sturtevant economizer; (4g) $111,731, same as 4b, using Sturtevant economizer; (4h) $120,245, same as 4e, using Sturtevant economizer; (5) $116,235, $107,127, using Wheeler condensers; (6) $103,377; (7) $94,551; (8) $111,43[illegible] (9) $98,143; (10) $89,794. Hoshor-Platt Co., 120 Liberty St., New York, N. Y., $11,800 for coal handling apparatus; $11,170 alternative. The Exeter Machine Works, 26 Cortlandt St., New York, N. Y., $15,900 for coal handling apparatus. The Jeffrey Mfg. Co., Columbus, Ohio, $19,244 for coal handling apparatus. Evans Almirall & Co., 281 Water St., New York, N. Y., item 1, $114,387, B. & W. boilers and superheaters, Roney stokers, Worthington condensers; (2) $110,745; (3) $113,197; (4) $110,235; (5) $107,297; (6) $99,787; (7) $92,697; (8) $97,695; (9) $96,140; (10) $83,090. The Link-Belt Co., Nicetown, Philadelphia, Pa., $13,915 for coal handling apparatus.

VIDALIA, GA.—The City will vote October 24 on the issuance of $25,000 of bonds for constructing water-works and electric light plant.

CINCINNATI, OHIO.—Bids are asked until Nov. 2 by the Board of Trustees for furnishing, delivering and installing electric lighting, wiring, conduits and cables for the buildings and grounds at the eastern or river pumping station; also installing a telephone system for said buildings and grounds. Augustus H. Herrmann is Pres.

DAYTON, OHIO.—The ABBOT-GAMBLE CO. has been awarded the contract for the erection of a power house here for the Dayton Citizens' Electric Co. Cyrus E. Mead is Vice-Pres. and Gen. Mgr.

The People's Ry. Co. will erect a new car barn and power house which will cost about $100,000. Jos. L. Breen is Gen. Mgr.

CLEVELAND, OHIO.—Frazier, Fox & Spencer, Engrs., have prepared plans for a new power plant for the Lake Erie Iron Works Co., to be erected on East Madison Ave., near the Clarendon and Pittsford R. R. tracks. The contract for the steel work has been awarded to T. H. BROOKS & CO., and the contract for the building has been awarded to the D. C. GRIESE & WALKER CO.

LANCASTER, OHIO.—The contract for furnishing 31,000 ft. of natural gas pipe has been awarded to the NATIONAL SUPPLY CO. at 70 cts. a ft.

COVINGTON, IND.—The Covington Electric Light & Water-Works power-house was entirely destroyed by fire. The loss is estimated at $20,000, with $5,000 insurance. A majority of the stock of the company was owned by E. H. Nebeker and H. C. Yount, of this city. They will rebuild at once.

CARTHAGE, IND.—The Carthage Light, Heat & Power Co. will soon ask for bids for the construction and equipment of a light, heat and power plant. John W. Beck and J. O. Overman are interested.

BIG RAPIDS, MICH.—The Grand Rapids-Muskegon Water Power & Electric Co. has secured the contract for lighting the streets of Big Rapids.

BRADLEY, ILL.—The Chicago & Southern Traction Co. will erect a power-house here.

WESTFIELD, ILL.—The Westfield Electric Light & Power Co. has been incorporated with a capital stock of $20,000 for the purpose of operating a light and power system.

PEORIA, ILL.—The McKinley Syndicate has started plans for a new smoke stack to replace the one which fell at its power-house on Sept. 30.

CANEY, KAN.—John H. Heckman, of Coffeyville, will construct an electric light plant in this place at a cost of $10,000. Bids for construction will be received in about three weeks. P. G. Walker, of Coffeyville, is Engr.

BEATRICE, NEB.—At a special meeting of the city council Oct. 2, a franchise to operate a gas plant here to furnish gas at $1.19 a thousand feet was granted to Doctor Eaton, of Cleveland, Ohio. The plant will cost approximately $50,000.

GRAND FORKS, N. DAK.—A permit has been issued for the construction of the Grand Forks Gas & Electric Co.'s power building. Estimated cost, $28,000.

GRAVETTE, ARK.—It is reported that R. J. Claflin, Vice-Pres. of the Electric Light Co., of Carthage, Mo., is interested in the project to establish a lighting plant in this place. Mr. Claflin, it is stated, proposes supplying and installing the equipment which will be maintained by a home company, probably the Gravette Milling Co., of which T. E. Leonard is a member.

FORT SMITH, ARK.—It is reported that Mrs. Fannie Cohn has applied for electric light and power franchise.

CHILOCCO, OKLA.—Bids are asked until Oct. 25 by S. M. McGowan, Supt. Indian School, for furnishing and delivering as required during the fiscal year ending June 30, 1907, a 200-HP. water-tube boiler, 120-HP. engine, dynamo of 80-KW. capacity, with switchboard, volt meters, circuit breakers, ammeters, rheostat.

CRIPPLE CREEK, COLO.—The Central Colorado Power Co. proposes an expenditure of about $10,000,000 in the development of water power on the Grand River in Colorado to generate electric energy and furnish current to Leadville, Cripple Creek, Denver, Colorado Springs and other mining cities in Colorado. It is proposed to furnish 30,000-HP. at present, and the plans include an ultimate development of 75,000-HP. Ex-Gov. Myron T. Herrick, of Cleveland, Ohio, probably will be president of the company, which was recently organized.

TACOMA, WASH.—Plans have been submitted by the City Electrician for a reinforced concrete substation building for the city light department, to cost from $15,000 to $20,000.

REDDING, CAL.—An electric power plant is to be erected in the Big Bend country, near the site of the Redding and Big Bend Lumber Co.'s mill, at an estimated cost of $7,000,000. The scheme contemplates diverting an immense volume of water from Pit River, near Pecks bridge, and conveying it by a ditch eight miles long, seven miles of which will be in a tunnel through Haynes Mountain, to the immense power plant. The water will have over 1,000 feet fall at the Patterson place. It is reported that the company undertaking the project is intimately connected with the Western Pacific Ry. Co., and Thomas B. Walker, and possibly with the United Railways of San Francisco as well. The official designation of the company is as yet unknown.

MEADOWS, IDAHO.—C. W. Luck, Engr. of Idaho City, is making surveys for an electric power plant which is to be erected here.

DEWEY, IDAHO.—The Trade Dollar Consolidated Mining Co. will expend about $100,000 in enlarging its plant at Swan Falls. Four turbines direct connected to generators will be installed, increasing the capacity of the plant about 2,000 HP. An addition will be built to the power plant 130 x 30 ft., making the total length of the power house 285 ft. Contracts for the wheels and generators have been awarded. Work is to be pushed on the extension, and it is hoped to have it completed by Feb. 1. Frederic Irwin is Mgr.

WINNIPEG, MAN.—The Fire, Water and Light Committee has recommended that the tender of CALEDONIAN IRON WORKS CO. for the supply of two Worthington turbine pumps, erected and installed complete, for the sum of $21,063, be accepted.

DAWSON, YUKON.—The CANADIAN WESTINGHOUSE CO., Hamilton, Ont., has been awarded a big contract to build electrical machinery for the Yukon Consolidated Engineering Goldfields Co.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BINGHAMTON, N. Y.—S. M. Baird, City Engr., is making plans for repairing the Court St. bridge, which will cost several thousand dollars.

HOBOKEN, N. J.—J. W. Leahy, Engr., has prepared plans for a viaduct from 14th St., Hoboken, to West Hoboken, and these plans have been approved by the Board of Freeholders. The approach will begin at the east side of Willow Ave., and will be constructed of concrete, reaching to the east side of Clinton St. It will span Clinton St. by an arch. The concrete retaining walls on this portion of the structure will be 300 ft. long. The grade of this section will be 6%. From Clinton Ave. there will be a steel structure, 1,300 ft. long and with a 4% grade. The viaduct will strike the hill at a point at right angles to the present intersection of the Hillside Road, 400 ft. from Palisade Ave. Here rock will be encountered and this will have to be blasted away in sufficient quantities to provide a roadway. Starting at this point there will be two branches, one roadway going north and the other south. The viaduct, as planned, is to be 60 ft. wide. The roadway is to be 40 ft. wide and is to be paved with granite blocks. Otto H. Wittpenn is County Supv.

HOKENDAUQUA, PA.—The AMERICAN BRIDGE CO. has secured the contract for furnishing and erecting a bridge over the Ironton R. R., at Hokendauqua, for the Lehigh Valley Terminal Co. Approximate cost, $8,000. Lehr & Bascom are Engrs., Allentown.

AVELLA, PA.—Bids are asked until Oct. 29 by the Board of County Commissioners, at Washington, for constructing a 55-ft. span steel bridge at Avella, over branch of Cross Creek. William Wylie is County Engr.

LEHIGHTON, PA.—The County Commissioners have awarded the contract to repair the Weissport-Lehighton bridge to the BUCHANAN CO., at $3,198. Other bidders were the Penn Bridge Co., $3,255, and the York Bridge Co., $3,207. The contract calls for two new sidewalks and substitution of steel stringers for the worn-out wooden ones, and the painting of all iron work within reach of the sidewalks.

ASHLEY (Wilkes-Barre post-office), PA.—Bids are asked until 7.30 p. m., Oct. 22, by D. E. Frederick, Secy., for constructing stone arch bridge across Solomon's Creek, on Cemetery St.

PORTLAND, PA.—Bids are asked until 9.30 a. m., Oct. 26, by the Commissioners of Northampton County, for construction of reinforced concrete arch bridge over Jacobus Creek, at Portland. L. A. Francisco is County Engr., 304 Porter Bldg., Easton, Pa.

READING, PA.—Bids are asked until 10 a. m., Oct. 19, by the County Controller, Reading, for constructing a steel plate girder bridge with concrete floor.

We are officially advised that plans and specifications are being prepared for the Treichlers bridge in Hereford. N. M. Davis is County Engr.

WASHINGTON, D. C.—JAMES J. OWEN, 335 Delaware Ave., Washington, has secured the contract for constructing a plate girder bridge on K St. over Rock Creek, between 28th and 29th Sts., at $32,500. A complete list of bids was published in Engineering News Sept. 27.

FAYETTEVILLE, N. C.—E. B. Pleasants, Ch. Engr. Atlantic Coast Line R. R. Co., Wilmington, N. C., in referring to the bridge to be built over Cape Fear River, near this town, advises us that "this bridge is to replace one now being removed. It will be a single track through bridge of three spans. Contract for same has been awarded to the AMERICAN BRIDGE CO."

AUGUSTA, GA.—Bids are asked by Judge W. F. Eve, until Oct. 19, for construction of a steel bridge 77 ft. long with a roadway 16 ft. in the clear, on the Washington Rd. across Rea's Creek at Lake Olsstead.

PENSACOLA, FLA.—Louisville & Nashville R. R. Co. will rebuild trestle spanning Escambia Bay, lately wrecked by storm. Work will be done by company's men. W. H. Courtenay, Louisville, Ky., is Ch. Engr.

BIRMINGHAM, ALA.—Birmingham Ry., Light & Power Co., it is reported, will build a steel bridge across Village Creek at North Birmingham. J. A. Emery is Gen. Mgr.

INDIANOLA, MISS.—The SOUTHERN BRIDGE CO., Birmingham, Ala., has contract for the construction of two steel drawbridges across the Sunflower River—one to cost $23,797 and one $25,454. J. W. Welch, of Indianola and J. F. Fountain, of Dockery, Miss., are Engrs.-in-Charge.

BELZONA, MISS.—It is reported that the contract for constructing a steel bridge at Belzona, for which bids were received Oct. 1, has been awarded to W. T. YOUNG BRIDGE CO., of Nashville, Tenn., at $27,965. T. H. Hood is Chancery Clk., Greenville.

NEW ORLEANS, LA.—It is reported that plans and specifications for the construction of proposed bridge over Bayou St. John at Esplanade St. will not be prepared until January, 1907. Bids for the construction will be received about three weeks afterwards.

NASHVILLE, TENN.—The citizens of Davidson County will vote in November on the issuance of $800,000 of bonds for the construction of two modern steel bridges across the Cumberland River at Nashville. W. M. Pollard is County Judge.

PADUCAH, KY.—McCracken County contemplates constructing two steel and reinforced concrete bridges, to cost $4,500 and $1,200 respectively. A. B. Johnson is Road Supv.

DAYTON, OHIO.—The contract for removing present bridge over Miami and Erie Canal, at Pearl St., and erecting a new structure, has been awarded to J. C. MORRISON, of Dayton, at $4,190. Bids were received Oct. 4. T. J. Kauffman is County Audr.

COSHOCTON, OHIO.—We are advised that contract for constructing substructure of the Big Island Ford bridge was on Oct. 12 awarded to LABJOHN & WILLIAMS, of Mansfield, Ohio, at $15,084, and the contract for superstructure to the CAPITOL CONSTRUCTION CO., Columbus, Ohio, at $8,987. George J. Bock, Jr., is Des. Engr.

MOUNT VERNON, IND.—We have been officially informed that the VINCENNES BRIDGE CO. has secured contract to construct the Wade and Phillips bridge. All bids for the Miller bridge were rejected. Bids were received Oct. 8.

HUNTINGTON, IND.—County Commissioners are considering the construction of a bridge over the Erie R. R. on the Range Line Road north of the city. The railroad company has offered to pay two-thirds of the cost of the structure. It is estimated that a 115-ft. span overhead crossing will cost $15,000.

GOSHEN, IND.—The County Commissioners, on Oct. 3, let the contract for the new bridges, arches, spans and bridge repairs to the ELKHART BRIDGE & IRON CO., represented by Frank Brumbaugh, at a total bid, after deducting for old bridges turned over to the company, of $27,613. The only competitor was the Joliet Iron & Bridge Co., in the big bridges.

COLUMBUS, IND.—The Commissioners of Johnson County contemplate building a new bridge over White River at the Azalia site.

ST. CHARLES, ILL.—The City Council has condemned the Fifth St. viaduct and has ordered the Chicago Great Western Ry. Co. and the Aurora, Elgin & Chicago Ry. Co. to replace the viaduct with a substantial bridge, or else have repair work started on the structure within 30 days. A. Munster and Charles Jones are Ch. Engrs. of the respective roads.

UTICA, ILL.—The Board of Supervisors and Commissioners of Utica and Deer Park Townships have decided to build a bridge across the Illinois River at Utica, the approximate cost being $50,000. Owing to the fact that the Government insists that the structure must be a draw an additional cost of $25,000 will be added.

EAST ST. LOUIS, ILL.—Steps have been taken toward reconstructing the East St. Louis viaduct, crossing Cahokia Creek at Broadway. It is estimated that the cost of reconstruction will be about $50,000.

GRINNELL, IOWA.—It is stated that the Chicago, Rock Island & Pacific Ry. will reconstruct the viaduct over the tracks of the company near Grinnell. J. B. Berry is Ch. Engr., Chicago, Ill.

KANSAS CITY, MO.—Bids are asked until Oct. 31 by J. L. Phelps, County Clk., for constructing an 80-ft. rubble stone bridge or reinforced concrete arch at Oak St. over Brush Creek; also same date for a 35-ft. plate girder steel bridge, and a 24-ft. I-beam steel bridge on steel legs with steel approaches, both in Township 47. Oscar Koehler is Road and Bridge Comr.

BEATRICE, NEB.—B. H. Conlee, County Clk., writes us that all bids received for constructing bridges have been rejected by the County Board. He adds: "The Board has, however, entered into agreement with the JOHN GILLIGAN CO. for work on bridges to be done in Gage County for the ensuing year. Its prices are as follows: Material for 862 ft. of wood bridges, $5.00 per lin. ft. of bridge; labor for erecting 862 ft. of wood bridge, $2.00 per lin. ft. of bridge; material for 192 ft. of steel bridges at $11.25 per lin. ft. of bridge; labor for erecting 192 ft. of steel bridges at $2.00 per lin. ft. of bridge."

AUSTIN, TEX.—The Commissioners of Travis County have decided to build a bridge across Onion Creek on the Creedmore Rd., at Doyle Crossing. It will be a 2-span overhead steel bridge of heavy steel, and will cost $10,000.

GLENWOOD SPRINGS, COLO.—Bids are asked until Oct. 22, by William Cordnell, County Clk., for constructing a steel span 100 ft. long, to cross Horse Creek.

NEW CASTLE, COLO.—Bids are asked until 10 a. m., Oct. 22, for constructing concrete abutment and steel span of 110 ft. across Horse Creek, near New Castle. Also a steel bridge 60 ft. long across Rifle Creek near Rifle. William Cardnell is County Clk.

SPOKANE, WASH.—Plans and specifications of the proposed D St. bridge are now being prepared. The structure as now proposed will be 400 ft. long, the main part of the bridge having three Howe truss spans of 100 ft. each. A trestle approach on the south 45 ft. long, and one on the north 64 ft. long are planned, with a few yards of fill at each

end. The center span will rest on crib piers in the water, and the timber piers on either side will rest on stone abutments.

PORTLAND, ORE.—The INTERNATIONAL CONTRACT CO., 737 New York Block, Seattle, Wash., has been awarded contract for constructing steel viaduct over Sullivan's Gulch at Grand Ave., Portland. Contract price, including foundations and pavement, $51,376. Douglas W. Taylor is City Engr.

DAGGETT, CAL.—It is reported that the BURROUGHS CONSTRUCTION CO. has secured contract for constructing a steel bridge over the Mojave River, at $12,339.

SAN JOSE, CAL.—The contract for constructing reinforced concrete bridge over Covete River has been awarded to JOHN DOYLE, of San Jose, at $13,332. J. G. McMillan is County Surv.

CHICO, CAL.—A bridge to cost $75,000 will be built over the Sacramento River at Chico.

SAN JOSE, CAL.—Bids are asked until 11 a. m., Nov. 5, by the Supervisors of Santa Clara County for constructing a reinforced concrete bridge over San Francisquito Creek at the line between Santa Clara and Mateo Counties. Henry A. Pfister is Clk.

PHOENIX, ARIZ.—The Maricopa, Phoenix & Salt River Valley R. R. Co. is about to begin construction of a girded deck, span steel bridge across the Gila River. The bridge proper will be 1,200 ft. long, consisting of 17 spans of about 70 ft. each. The entire length of bridge and approaches will be 4,400 ft., and the cost will be $113,856. E. A. McFarland is Ch. Engr., Tucson, Ariz.

BRANTFORD, ONT.—The Grand Trunk Ry. System has decided to build overhead bridge on their system, just outside the city, and has sent blue prints and plans of the proposed construction to the Township Clk. Joseph Hobson, Montreal, Que., is Ch. Engr.

INGERSOL, ONT.—T. R. MAYBERRY, Ingersol, has secured contract for construction of concrete arch bridge, of one span, on stone foundation, at $11,000.

WINNIPEG, MAN.—Plans, specifications and bidding sheet for constructing bridge at Redwood Ave., over the Red River, Winnipeg, as advertised, are on file at the office of Engineering News, New York, N. Y. Bids are asked until Nov. 20. Col. H. N. Ruttan is City Engr.

EDMONTON, ALTA.—The contract for constructing the bridge for the Grand Trunk Pacific Ry. Co. at Edmonton, has been awarded to the MAY-SHARPE CONSTRUCTION CO., and work will start at once. The bridge, which is to be one of the largest on the system, will be of steel, with concrete piers. The cost of the structure will be $250,000. B. B. Kelliher is Ch. Engr., Montreal, Que.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

MIDDLETOWN, CONN.—It is reported that CHAS. B. ANDRUS, of Hartford, has secured the contract to erect the dormitory at Wesleyan University at about $150,000.

NORWALK, CONN.—Bids are asked until Oct. 23 for the erection of a high school, to cost $100,000. Wilson Potter, 3 Union Square, New York, is Arch.

NEW YORK, N. Y.—The Supervising Architect of the Treasury, Washington, has awarded to the TIFFANY STUDIOS, Madison Ave. and 45th St., New York, contract for furnishing the special woodwork in the New York Custom House, at $14,879.

The Board of Aldermen recently authorized the issuance of $3,500 in corporate stock for fees for the advisory architects who are to compete for designs for the new penitentiary on Riker's Island, to take the place of that on Blackwell's Island, at a cost of $2,000,000. The new prison will have 2,000 cells.

Bids are asked by Francis J. Lantry, Fire Comr., until 10.30 a. m., Oct. 24, for erection of additions to the headquarters building at 365-67 Jay St., Boro. of Brooklyn.

NEW YORK, N. Y.—The following bids were received by the Department of Public Charities Oct. 12, for erection of the eight ward buildings of the Sea View Hospital, Castleton, Boro. of Brooklyn: Waters & O'Connell, 103 East 125th St., $1,265,000; Tidewater Bldg. Co., 25 West 26th St., $1,573,000; D. J. Ryan, 723 Third Ave., Brooklyn, $1,600,000; Thos. Cockerill & Son, 147 Columbus Ave., $1,350,000; Church Const. Co., 949 Broadway, $1,389,000; T. W. Carlin Const. Co., Kent Ave., Brooklyn, $1,498,000.

Geo. F. Driscoll, 391 Fulton St., Boro. of Brooklyn, was the lowest bidder for the erection of building for engine company, to be located on Union St., near Seventh Ave., Boro. of Brooklyn. His bid was $41,998.

Daniel J. Ryan, 723 Third Ave., Brooklyn, was the lowest bidder, Oct. 9, for the erection of engine house to be located on Eleventh St. near Seventh St., Boro. of Brooklyn, his bid being $45,000.

For erecting additions and alterations in public school No. 25, on East Fourth St., near First Ave., Boro. of Brooklyn, Frank Dobson, 319 East 53d St., was the lowest bidder, his bid being $17,782. His bid of $13,310 was also the lowest for installing heating and ventilating apparatus of new public school 21, on Sherman Ave., between Sands St. and Morningstar Road, Port Richmond, Boro. of Richmond.

ROCHESTER, N. Y.—The contract for the erection of the large reinforced concrete warehouse for the Hunting Co. was awarded to the Consolidated Engineering & Construction Co., of Syracuse, on Oct. 6.

NEW YORK, N. Y.—Bids are asked by the State Commission in Lunacy, Albany, N. Y., until 3 p. m., Oct. 24, for rewiring and fixtures, east division, Manhattan State Hospital, Ward's Island, N. Y. G. L. Heins is State Arch., Capitol, Albany, N. Y.

NEW YORK, N. Y.—Bids are asked until Oct. 29, 11 a. m., by C. B. J. Snyder, Supt. School Bldgs., Dept. Education, for general construction of addition to Public School No. 129, Boro. Brooklyn.

FISHERS ISLAND, N. Y.—Bids are asked until 3 p. m., Nov. 1, by the Quartermaster for constructing a gymnasium and a set of officers' quarters at Fort H. G. Wright, N. Y.

WEST POINT, N. Y.—Bids are asked by the Quartermaster until noon, Nov. 1, for erection of bachelor officers' quarters. (Advertised, Engineering News.)

BLACKWOOD, N. J.—C. J. Brooke, Arch., 14 South Broad St., Philadelphia, is preparing plans for a 2-story brick and stone laundry at this place for the Camden County Board of Freeholders.

DOVER, N. J.—Bids are asked at the United States Powder Depot, Dover, until Nov. 8, for the erection of two brick and steel storehouses for nitrate of soda, complete.

NEWARK, N. J.—Bids are asked by the Council Building Committee, until 4.30 p. m., Oct. 22, for the erection of a fire apparatus house, to be situated on Lafayette and Mulberry Sts. Herman Kreitler, 45 Clinton St., Newark, N. J., is Arch. Bids will be received at the same time for the erection of a police station-house, to be known as the First Precinct, to be situated on Washington and Court Sts., Newark. Hurd & Sutton, Union Bldg., 9 Clinton St., Newark, are Archs.

PHILADELPHIA, PA. — William R. Dougherty has plans from Horace Cook, Arch., for a 3-story public school at Second and Wolf Sts. It will be of fireproof construction, and will measure 90 x 110 ft., with two wings. The cost will be about $150,000.

Reis & Appell are having plans prepared for a 1-story brick, stone and steel theatre, of fireproof construction, at this place. Estimated cost, $100,000.

PITTSBURG, PA.—C. M. Bartberger & Son, Archs., have awarded the contract for the erection of Baur Bros.' bakery in Penn Ave., near Denniston Ave., to the HENRY SHENK CO. for $140,000. The building is to be a 4-story brick and steel structure and will be one of the most complete of its kind in the State.

BALTIMORE, MD.—EDWARD J. PRESTON has been awarded the contract to erect the 6-story brick addition to the department store at 311-15 Martin St. It is to cost $180,000.

C. M. Anderson, Arch., 324 North Charles St., has invited bids for a 6-story brick, concrete and steel warehouse, of fireproof construction, at Girard and Latrobe Sts., for the Crown Cork & Seal Co.

WASHINGTON, D. C.—John Hays Hammond, of South Africa, has commissioned Wyeth & Cresson, Archs., 1517 H St., N. W., to prepare plans and specifications for dwelling to be erected on Massachusetts Ave. N. W. It is to be four stories high, of fireproof construction, and will cost about $200,000.

The Masonic Temple Association, F and Ninth Sts., N. W., is arranging for the erection of new Temple at New York Ave. and Eleventh St., N. W., to cost about $500,000, including site.

Bernard R. Green, Superintendent of Construction of the new National Museum Building, Washington, D. C., has rejected all bids received Sept. 30 for the masonry and pier work connected with the foundations of the Museum Building, and has issued new specifications, somewhat modified, calling for bids until 2 p. m., Oct. 18. The bids were rejected because in each case the amount was greater than the appropriation.

The Vermont Marble Co., at $4,500, was lowest bidder on the contract for supplying the marble for the stairway in the northwest vestibule of the Senate Office Building, Washington. Bids were opened Oct. 10 at the office of the Superintendent of the Capitol Buildings and Grounds.

WASHINGTON, D. C.—Bids were opened Oct. 11, at the office of the Depot Quartermaster, War Department, Washington, D. C., for the construction of the Walter Reed Army General Hospital, Washington, D. C. Bids were asked under the following heads: 1, building complete, including mechanical equipment. 2, general construction, exclusive of mechanical equipment. 2a, deduction for omission of balustrade. 2b, deduction for omission of roof lantern. 2c, price per M. for facing bricks. 2d, price per M. for common bricks. 2e, price per cu. yd. for earth excavation. 2f, price per sq. yd. for plastering on solid walls. 2g, same for plastering with metal lathing. 3, complete plumbing and drainage system and gas piping. 3a, addition for additional marble wainscot in toilet rooms. 3b, addition for supplying white structural glass in lieu of marble work in toilet rooms. 3c, addition for additional glass wainscot in toilet rooms. 4, complete hot water heating and mechanical ventilating system. 4a, addition for complete automatic temperature control. 5, complete electric conduit and wiring system. 6, complete electric elevator plant. 6a, service elevator complete. 6b, safety device in lieu of guide grip. 6c, safety device in addition to guide grip. 7, complete vacuum cleaning system. 7a, alternate for four-sweeper plant, instead of two-sweeper.

Brennan Construction Co., 3056 K St. N. W., Washington, D. C., (2) $167,676, time 15 months; (2a) $3,000; (2b) $2,200; (2c) $34; (2d) $22.50; (2g) $1.60.

Otis Elevator Co., Washington, D. C., (6) $8,630; (6a) $4,390; (6b) $900; (6c) $1,000.

Henry Smith & Sons Co., Baltimore, Md., (1) $197,025, exclusive of plumbing, drainage and piping; time 15 mos.; (4) $21,150; (4a) $4,000; (5) $4,992; (6) $8,630; (7) $3,250.

Richardson & Burgess, Colorado Bldg., Washington, D. C., (2) $173,068, time 15 mos.; (2a) $3,325; (2b) $2,440; (2c) $30; (2d) $24; (2e) 50 cts.; (2f) 40 cts.; (2g) 70 cts.

Pavarini & Wyne, Old Police Court Bldg., Washington, D. C., (1) $169,999.99, time 15 mos.; (2a) $2,500; (2b) $2,000; (2c) $32; (2d) $21; (2e) 50 cts.; (2f) 40 cts; (2g) 70 cts.

Herman Probst, (2) $163,770, time 15 mos.; (2a) $2,500; (2b) $1,760; (2c) $34; (2d) $23; (2e) 45 cts.; (2f) 42 cts.; (2g) 80 cts.

Jas. Nolan & Sons, 721 14th St., Washington, D. C., (3) $17,670.

Newport Plumbing, Heating & Tinning Co., Inc., Newport News Va., (3) $15,770; (3a) $3,700; (3b) $3,516; (3c) $7,184.

S. Faith, Philadelphia, Pa., (3) $15,400; (3a) $2,750; (3b) $4,797; (3c) $6,559; (4) $21,000; (4a) $3,800; (5) $5,800.

John D. Waters, Washington, D. C., (3) $21,388; (3a) $4,320; (3b) $1,873; (3c) $7,575.

C. H. Sandon, Boston, Mass., (4) $19,100; (4a) $3,700.

G. A. Suter & Co., New York, N. Y., (4) $21,330; (4a) $3,074.

Evans, Almirall & Co., New York, N. Y., (4) $20,987.

National Electric Supply Co., 1330 New York Ave., Washington, D. C., (5) $4,992.

Arthur Frantzen Co., New York, N. Y., (5) $4,999.

Western Electric Co., New York, N. Y., (5) $5,964.

R. F. Fletcher, Columbus, Ohio, (5) $4,600.

Carroll Electric Co., Washington, D. C., (5) $4,600.

Marine Engine & Machine Co., New York, N. Y., (6) $9,152; (6a) $4,300; (6b) $800; (6c) $1,000.

General Compressed Air House Cleaning Co., St. Louis, Mo., (7) $2,190; (7a) $2,710.

Vacuum Cleaner Co., 427 Fifth Ave., New York, N. Y., (7) $2,850; (7a) $3,250.

Nicholas Plumbing Co., Columbus, Ohio, (4) $21,000; (4a) $3,800; (3) $19,100; (3a) $4,475; (3b) $450; (3c) $4,975.

Thompson-Starrett Co., Commercial Bank Bldg., Washington, D. C., (1) $224,400, time 10 mos.; (2), (3), (4), (5), (6), (7) included in main bid; (2a) $2,375; (2b) $3,650; (2c) $35; (2d) $20; (2e) 42½ cts.; (2f) 60 cts.; (2g) $1.20; (3a) $4,450; (3b) $2,300; (3c) $6,880; (4a) $3,880; (6a) $4,390; (6b) $950; (6c) $1,050; (7a) $790 additional.

Cramp & Co., Philadelphia, Pa., (1) $207,493; (2) $154,843; (2a) $3,650; (2b) $1,400; (3) $15,750; (4) $21,000; (5) $4,400; (6) $9,000; (7) $2,500.

Walworth Construction & Supply Co., Boston, Mass., (4) $22,000; (4a) $3,758.

B. F. Buchanan & Co., Philadelphia, Pa., (5) $6,390.

Noel Construction Co., Baltimore, Md., (1) $242,000, time 12 mos.; (2) $186,033; (2a) $5,188; (2b) $3,000; (2c) $22; (2d) $17.60; (2e) 40 cts.; (2f) 37 cts.; (2g) 40 cts.; (3) $19,587; (3a) $4,300; (3b) $2,300; (3c) $6,313; (4) $21,150; (4a) $3,730; (5) $4,200; (6) $8,630; (6a) $4,400; (6b) $900; (6c) $1,000; (7) $2,400; (7a) $4,200.

Charles McCaul Co., Philadelphia, Pa., (2) $165,850, time 16 mos.; (2a) $2,100; (2b) $1,800; (2c) $30; (2d) $23; (2e) $1; (2f) 70 cts.; (2g) 90 cts.

Ambrose B. Stannard, New York, N. Y., (1) $232,813; (2) $177,713; time 14 mos.; (2a) $3,400; (2b) $3,000; (2c) $25; (2d) $25; (2e) 80 cts.; (2f) 50 cts.; (2g) 90 cts.; (3) $17,700; (4) $19,900; (5) $4,900; (6) $8,900; (7) $3,700.

Wm. H. McCray, Washington, D. C., (1) $232,715; (2) $177,285; (2a) $2,500; (2b) $2,000; (2c) $32; (2d) $22; (2e) 65 cts.; (2f) 50 cts.; (2g) $1.60; (3) $18,769; (3a) $4,237; (3b) $2,000; (3c) $6,559; (4) $20,997; (4a) $3,650; (5) $4,200; (6) $8,630; (6a) $4,390; (6b) $900; (6c) $1,000; (7) $2,850; (7a) $3,250.

JAMESTOWN, VA.—Bids were opened Oct. 11 at the office of James Knox Taylor, Supervis. Arch., Treasury, Washington, D. C., for a commemorative monument at Jamestown, Va. Bids were as follows: Norcross Bros., Worcester, Mass., Mascomia N. H. light pink granite, $71,100; Stony Creek light pink granite, $71,846; Plateau While Dorset, Vt., marble, $73,358; Troy, N. H., light gray granite, $76,366; Milford light pink granite, $77,206; Georgia granite, $78,758. Harrison Granite Co., New York, Mt. Airy, N. C., granite $79,852; Barre, Vt., light gray granite, $93,345; light gray Milford granite, $95,535; Lee, Mass., marble, $99,725.

NORFOLK, VA.—The Paul Gaie-Greenwood Co., Granby St. and City Hall Ave., it is reported, has awarded the contract to erect an 8-story building to E. TATTERSON, 312 Main St. Cost is reported to be $100,000.

NEW ORLEANS, LA.—The Police and Public Bldgs. Committee recently reported favorably on the erection of a City Hall annex building to cost $200,000.

CLEVELAND, OHIO.—It is reported that ANDREW DALL & SON, Lennox Bldg., have secured the contract to erect the courthouse of granite at $2,998,900.

COLUMBUS, OHIO.—The contract for the Bachelors' Hall to be erected at Gay and Third Sts., at a cost of $100,000, has been awarded to WALTER SMITH by Frank L. Packard, Arch.

MOORES HILL, IND.—Bids are asked until Oct. 23 for the erection of an administration building for Moores Hill College, from plans of Crapsey & Lamm, Seventh and Race Sts., Cincinnati, Ohio. Rev. F. C. English is Pres. of College.

BLOOMFIELD, IND.—Bids are asked by the Commissioners of Greene County until Oct. 22 for the construction of a school house in Wright Township.

GARY, IND.—E. O. Shelby, of Coshocton, Ohio, is asking for bids for the erection of a large department store and office building in this city. T. H. Hutton, of Hammond, Ind., is Arch.

RICHMOND, IND.—The Second National Bank of this city has ordered plans and will soon ask for bids for the construction of a $75,000 bank building in this city.

INDIANAPOLIS, IND.—Plans and specifications are ready for bidders for the construction of a new fire house on Massachusetts Ave.

Plans for an addition to the City Hospital have been approved and the Board of Public Works will soon ask for bids. Adolph Scherrer is Arch.

H. S. Ramsey and F. Axton, of Louisville, Ky., have secured a site at Illinois and Eleventh Sts., and have ordered plans for the construction of the largest skating rink in America. The building will be 100 x 208 ft., and will accommodate 1,500 skaters. The building will be of brick and architecturally one of beauty.

ANN ARBOR, MICH.—
B. C. Whitney and Atto... reported that troit, are promoting a ... for be- opera house and hotel for ... combined.

DETROIT, MICH.—The ... by Donald- son & Meier, Archs., Per... $400,000 department store ... ilding for a D. M. Ferry, have been a... erected by

CHICAGO, ILL.—John ... Arch., 70 Dearborn St., it is repo... preparing plans for and will take b... high- grade apartment building ... St., near Grand Boulevard ... on 45th 3-story building, and cost ... will be a

It is reported that Jam... Chicago Opera House Block ... Arch., on a large apartment build... figures Mrs. H. E. Barrett. It w... erected consist of three wings built ... St., for court, 37 ft. wide, and will ... an open ft. It will have pressed b... 112 x 115 exterior, structural iron, cem... stone ment, the latest improvem... and cost about $100,000.

Reports state that figures ... taken for a building to be erected ... S. Mich- igan Ave., for the Chicago ... al Col- lege, 201 Michigan Ave. It ... be six stories high, 65 x 150 ft., ... marble and stone. Estimated cost, $...

S. N. Crowen, Arch., Borl... Dg., La Salle and Monroe Sts., it is ... will let contracts shortly for a theater ... be built on Wilson Ave., near North ... for the Empire Theater Co. It will b... fireproof steel construction, with concre... building, brick and stone exterior, and ... interest im- provements, at a cost of about $...

Dodge & Morrison, Archs., ... Wall St., New York, are preparing plans for a theater to be erected at 196-198 West ... Madison St., to cost about $300,000. The Hyde & Behman Syndicate will be the owners.

Thomas McCall, Arch., Railway Exchange Bldg., 7 Jackson Boulevard, is preparing plans for an apartment building to be erected at 51st St. and Washington Ave., for Joseph Cormack. 145 La Salle St. It will be 3-story, 75 x 150 ft., have pressed brick and stone fronts, structural steel work, concrete foundation, all the latest improvements, and cost $100,000.

It is reported that Marshall & Fox, Archs., 164 Dearborn St., are taking new bids for a clubhouse to be erected on Plymouth Place, between Jackson Boulevard and Van Buren St., for the Chicago Automobile Club. To be six and three stories high, 100 x 100 ft., built of brick and stone. Estimated cost, $150,000.

ELROY, WIS.—Bids are asked by the Library Board of the city until Oct. 24, at the office of the Secretary, for furnishing material and doing work in the erection of a public library building in the city. Wm. Flood, Secy.

HAYWARD, WIS.—Bids are asked until Nov. 12 by the Commissioners on County Property, care R. J. Hennessey, for installing a steam-heating plant in the courthouse and jail.

LA CROSSE, WIS.—The German Singing Society and the Board of Trade, it is reported, are contemplating the erection of an auditorium to cost about $200,000.

SUPERIOR, WIS.—Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., until 3 p. m., Nov. 12, for a steam heating apparatus for the U. S. post-office, court-house and custom house.

WITTENBERG, WIS.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m., Oct. 22, for construction of a brick laundry building with plumbing and electric light, at the Wittenberg School. S. A. M. Young, Supt., Wittenberg.

DES MOINES, IOWA.—Plans have been prepared by D. H. Burnham & Co., Archs., 83 Wabash Ave., Chicago, Ill., and bids are now being received for the 10-story building to be erected at Sixth and Walnut Sts., for Fleming Bros. Probable cost, $350,000.

SIOUX CITY, IOWA.—Sam S. & Lee Shubert, New York, N. Y., will erect a $150,000 theater in Sioux City.

LAWRENCE, KAN.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m., Oct. 25, for installing baths in the girls' building and gymnasium at Haskell Institute, Lawrence. H. B. Peairs is Supt., Haskell Institute.

RAPID CITY, S. DAK.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m., Oct. 24, for constructing brick office building at the Rapid City School. Jesse F. House is Supt.

CARUTHERSVILLE, MO.—Bids are asked until Nov. 8 by the Board of Aldermen, addressed to H. C. Schult, City Clk., for erecting a city hall.

KANSAS CITY, MO.—The church to be erected by the First Congregational Church will be 200 x 215 ft., have a seating capacity of 1,000, and cost $100,000.

Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Oct. 25, for the installation of a hydraulic mail lift in the U. S. post-office and court-house in this city. (Advertised, Engineering News.)

ST. LOUIS, MO.—JAMES STEWART & CO., Lincoln Trust Bldg., have been awarded the contract by Wilmann & Walsh, Archs., Wainwright Bldg., for the erection of a residence, 118 x 100 ft., for the Anheuser-Busch Brewing Association, North and Pestalozzi Sts. Estimated cost, $100,000.

The WESTLAKE CONSTRUCTION CO. has contract to erect store and office building for Louis Sambucetti, for which Chas. S. Holloway, Arch., prepared plans. It is to be three stories high, 185 ft. front, mill construction, and will cost $75,000.

LITTLE ROCK, ARK.—Bids are asked until Oct. 29, for the erection of a city hall, to cost about $175,000. C. L. Thompson is Arch.

SOUTH McALESTER, IND. T.—Bids are asked by P. D. Brewer, Secy. Board of Education, until Oct. 20, for the erection of a high school, to cost $175,000.

DENVER, COLO.—Bids are asked by G. E. Randolph, Pres. Bd. of Pub. Wks., until 11 a. m., Oct. 24, for erection of the auditorium building. Robert Willsion, 311 Colorado Bldg., is Arch.

COLORADO SPRINGS, COLO.—It is reported that James F. Burns will erect an 8-story theater on Pike's Peak Ave., at a cost of $300,000.

SEATTLE, WASH.—J. W. Considine and Timothy Sullivan, of New York, will erect a 16-story theater building at Third Ave. and Madison St., at a cost of $600,000. James J. Donnelson, 318-19 Denny Bldg., is Arch.

SAN FRANCISCO, CAL.—Meyer & O'Brien, Archs., Crossley Bldg., have completed plans for a 6-story building at northeast corner of Post and Kearny Sts. to be erected by J. J. Thompson and J. F. Ortman.

On the southwest corner of Post and Kearney Sts., the Bullock & Jones Co. will erect a 6-story class A building, with steel frame and reinforced concrete wall and floor construction. J. E. Krafft, 819 Market St., is Arch.

A 6-story class A building is to be erected on Mission St., between Third and Fourth Sts., at a cost of $225,000.

OAKLAND, CAL.—The directors of the Y. M. C. A. will erect a 3-story, fireproof building, to be located at 14th and Jefferson Sts., at a cost of $250,000.

QUEBEC, QUE.—Bids are asked by F. Gelinas, Dept. of Pub. Wks., Ottawa, until Oct. 20 for erecting a disinfection house at the Grosse Ile quarantine station.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—Bids are asked until 7.30 p. m., Nov. 12, by the Board of Water Commissioners, for a quantity of c.-i. pipe. (Advertised, Engineering News.)

BROCKTON, MASS.—Bids are asked until noon, Nov. 21, by the Water Commissioners, for installing a pumping engine of 6,000,000 gallons daily capacity. Charles R. Felton is City Engr. (Advertised, Engineering News.)

CAMBRIDGE, MASS.—Bids are asked until noon, Oct. 19, by the Water Board, for constructing pipe subways or tunnels under Broad Canal. L. M. Hastings is City Engr.

CORNING, N. Y.—The contract for erection of the new water-works plant has been awarded to JOHN BENGER, of Elmira, N. Y., his bid of $6,995 being the lowest submitted. The building is to be of brick, 80 × 37 × 14 ft.

LOCKPORT, N. Y.—C. N. Stainthorpe, of Lockport, was the lowest bidder, at $490,263, for constructing water-works system in this city. Bids were received Oct. 8 by the Common Council, and have since been referred to the Committee on Fire and Water. E. S. Bennett is City Clk.

ALBANY, N. Y.—Of the bids received Oct. 15 for improvements to water supply and engine foundations at the Quackenbush St. pumping station, the bid of Cassidy & Gallegher, 68 Park Ave., Albany, $10,991, was low. Walter E. Melius is City Engr.

NEW YORK, N. Y.—Bids are asked until 2 p. m., Nov. 7, by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for constructing and remodeling the Ridgewood pumping station, Atlantic Ave., between Logan and Chestnut Sts., Brooklyn.

Bids are asked until 2 p. m., Oct. 31, by John H. O'Brien, Comr., for installing two boilers and one economizer at the new Gravesend pumping station.

The same bids were received Oct. 10 by John H. O'Brien, Comr., for supplying 352,000 lbs. castings for Sections 1 and 2 of contract. The bids were as follows: M. J. Drummond & Co., 182 Broadway, 2.40 cts.; John Fox & Co., 2.19 cts.; Herron Pump & Foundry Co., 120 Liberty St., 2.136 cts.; Hammond & Sloane, Buffalo, N. Y., 2.188 cts. The bids received at same time for supplying double-nozzle hydrants were: M. J. Drummond & Co., $33.81; Herron Pipe & Foundry Co., $32.48.

ATLANTIC CITY, N. J.—Bids are asked until 8.30 p. m., Oct. 29, by the City Clerk, for furnishing and setting a quantity of pipe, etc. J. W. Hackney is City Engr. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked by the Bureau of Filtration, 710 City Hall, until noon, Nov. 14, for filtering materials. John R. Hathaway is Director. (Advertised, Engineering News.)

PAXSUTAWNEY, PA.—The Citizens' Water Co., it is reported, will construct water-works here at a cost of $10,000. W. R. Cole, A. S. Klock and others are interested.

EDINBURG, VA.—The contract for laying the pipes and doing all the work connected with installation of the Edinburg water system was recently awarded to T. A. MALONE, at $6,573.25, and the contract to furnish all pipes, valves, fire-plugs, etc., was awarded to the GLAMORGAN PIPE CO., of Lynchburg, at about $10,000. Work on the system will be commenced at once.

NORFOLK, VA.—Bids are asked by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., until 10 a. m., Oct. 23, for furnishing c.-i. pipe and special castings at the navy yard, Norfolk. H. T. B. Harris is Paymaster Gen., U. S. N., Washington.

VIDALIA, GA.—See under Light and Power Plants.

DOUGLAS, GA.—See under Light and Power Plants.

JACKSONVILLE, FLA.—The following bids were received on Oct. 4 by the Board of Trustees of the Water-Works and Improvement Bonds, for furnishing one 8,000,000-gallon pumping engine: (a) triple expansion, (b) cross compound. H. R. Worthington, 114 Liberty St., New York, N. Y. (a) $14,060; FRED M. PRESCOTT STEAM PUMP CO., Milwaukee, Wis., (a) $14,190 (awarded contract), (b) $24,140; Allis-Chalmers Co., Milwaukee, Wis., (b) $25,000; Laidlaw-Dunn-Gordon Co., Cincinnati, Ohio, (b) $26,000; Loretz & Co., New York, N. Y., (b) $28,550; Snow Steam Pump Co., Buffalo, N. Y., (b) $29,000.

WYLAM, ALA.—It is reported that the Birmingham Water-Works Co. will extend water mains to Wylam.

VICKSBURG, MISS.—On Oct. 8 the City Council voted to grant a franchise to A. Rose, John Brunini, Patrick Henry and other citizens, for construction and maintenance of a water system through the streets and public grounds of Vicksburg. Work will be started at once.

McCOMB, MISS.—The City will issue $15,000 of bonds for extending and improving water-works.

NEW ORLEANS, LA.—Bids are asked until noon, Oct. 25, by Capt. B. T. Clayton, Q. M., for constructing eleven cypress cisterns at Fort St. Philip, La.

FREDERICKSBURG, OHIO.—Bids are asked until about Oct. 20 for furnishing material and constructing water-works, at a cost of about $6,500. M. L. Stophlet is Mayor.

CALIFORNIA, OHIO.—We are officially advised that contract for installing machinery of the proposed filtration plant has been awarded to the NORWOOD ENGINEERING CO., of Florence, Mass., at $68,000. Elmer G. Power is Clk.

IRON RIVER, MICH.—Bids are asked until Oct. 23 by Charles A. Otto, Village Clk., for constructing a complete water-works system. Claussen, Burch & Pillsbury are Engrs., St. Paul, Minn.

NORTHPORT, MICH.—Steps have been taken toward the establishment of a system of water-works here.

CHICAGO, ILL.—Bids are asked until 11 a. m., Nov. 3, by the Department of Public Works, for construction of a 14-ft. water tunnel, about 12,180 ft. long. Also, a permanent intake crib and temporary crib and working shaft. William L. O'Connell is Comr. of Pub. Wks. (Advertised, Engineering News.)

We are officially informed that John D. Dougherty on Oct. 10 submitted the lowest bid, at $20,000, for constructing the Indiana St. water pipe tunnel. John Ellison is City Engr.

PEORIA, ILL.—The contract for digging wells to supply the Barrett Mfg. Co. with water has been secured by W. H. SCHILLING, a local contractor. Eight 8-in. wells will be bored, and a flow of 2,500,000 gallons of water a day will be obtained.

REEDSVILLE, WIS.—Bids are asked by Charles Heim, Village Clk., until 7.30 p. m., Oct. 24, for laying 2,500 ft. of 6 and 8-in. c.-i. water pipe, setting hydrants, etc. The materials are all purchased and are on the ground. W. G. Kirchoffer is Engr., 31 Vroman Block, Madison, Wis.

FORT SCOTT, KAN.—We are officially advised that improvements will be made to the water-works and electric light plant at Fort Scott, Kan. Burns & MacDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

CONCORDIA, KAN.—The City Council has passed resolutions in favor of an extension of the water-works system and the enlarging of the plant. The present system is inadequate to the present demands of the city.

GARDEN CITY, KAN.—The Secretary of the Interior has rejected all bids received for construction of structures for the Garden City irrigation project, Kansas, and authorized the construction of the work by force account under the direction of the Reclamation Service. The work consists of the construction of deep and shallow wells, suction pipes, pumping stations, siphons, concrete-lined conduits and fencing. The bids were all greatly in excess of the estimates of the engineers, except one bid for a gate valve, and it is believed that the work can be more economically performed by force account.

SCRIBNER, NEB.—Bids are asked by the Board of Trustees of the Village of Scribner until Oct. 27 for construction of water-works system and a heating and lighting system. Thomas Shaw is Engr., Paxton Block, Omaha, Neb.

SHERIDAN, WYO.—Bids are asked until 8 a. m., Oct. 24, by the Town Council, for constructing pipe line from city reservoir to Sheridan. George Long is Town Clk.

BENTON, ARK.—A system of water-works will be established here by J. F. Lee.

TECUMSEH, OKLA.—The city has issued $80,000 in bonds for construction of water-works.

FORT WINGATE, N. MEX.—Bids are asked by George L. Morrison, Constr. Q. M., until Nov. 15 for the construction of a reservoir and connections here.

ENTERPRISE, ORE.—The City Council of Enterprise has authorized an election for the purpose of amending the charter, increasing the amount to construct a system of water-works from $10,000 to $30,000. The water supply will come from springs about three miles from the city.

SALT LAKE CITY, UTAH.—PATRICK J. MORAN has been awarded the contract for the enlargement of Parley's Canyon reservoir by the Board of Public Works. The contract was given to him at an estimate of $15,000, which was submitted to the Board of Public Works by L. C. Kelsey, City Engr. No bids were asked for, and it was granted to Moran as an extension of his contract on the conduit.

The Directors of the Associated Canal Co. are reported to have decided to purchase an additional pump. The cost of the pump, with other improvements, will be about $20,000.

THOROLD, ONT.—The report of Willis Chipman, C. E., 105 Bay St., Toronto, on a water-works system here, has been adopted. Estimated cost, $80,000.

DUNNVILLE, ONT.—It is reported that the contract for laying about 7,000 lin. ft. water main has been awarded to EDWARD J. HARTNETT, of Toronto, at about $6,200. J. W. Holmes is Town Clk.

RIDGETOWN, ONT.—Mahlon Davis, of Berlin, Ont., has estimated that to construct well and water mains in Ridgetown will cost $35,000.

WINNIPEG, MAN.—It is reported that the CALEDONIA IRON WORKS, Montreal, Que., has secured contract to install turbine pumps, at $21,033.

Bids are asked until Oct. 22 by L. Gibson, Chn. Fire, Water and Light Com., for supplying a quantity of water pipe and specials for the city water-works.

The City Water Supply Commission is having surveys made in view of constructing a gravity system of water-works, the supply to be taken from Shoal Lake. Col. H. N. Ruttan is City Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by the Metropolitan Water and Sewerage Board, 1 Ashburton Place, until 2:30 p. m., Nov. 9, for constructing a rock and earth tunnel. William M. Davenport is Secy. (Advertised, Engineering News.)

WOONSOCKET, R. I.—The contract for constructing a sewer from Hamlet Ave. through Harrison to Morton Ave., through Morton to Kendrick Ave., and through Kendrick Ave. to connect with the sewer in Drown St., has been awarded to NAPOLEON BOUVIER & CO., the lowest bidders.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Oct. 24, by Bird S. Coler, Pres. Boro. of Brooklyn, for constructing sewers in various streets in Brooklyn.

BUFFALO, N. Y.—Bids are asked until Oct. 23 by the Department of Public Works for constructing 10-in. tile sewers in portions of Grote St. and Indian Orchard Pl.; also a 10 and 12-in. tile sewer in Barraga St. F. G. Ward is Comr.

CORTLAND, N. Y.—JAMES GRANT, 107 Homer Ave., has been awarded sewer contract which calls for 2,940 ft. on Homer Ave. and 12,000 ft. on North Main St. Amount of bid, $5,992.

NIAGARA FALLS, N. Y.—At a recent meeting of the Board of Public Works SHEPARD & CO. were awarded the contract for sewer work, at $6,600.

HOBOKEN, N. J.—Bids are asked until 8 p. m., Oct. 24, by the Common Council, for constructing brick sewer in Adams St., between Eighth and Ninth Sts. James Londrigan is Clk.

WASHINGTON, PA.—Bids are asked by the Town Council, until Oct. 22, for the construction of municipal sewerage purification works. J. K. Weir is Clk.

COLUMBIA, PA.—It is reported that the National Sanitation Co., Betz Bldg., Philadelphia, has petitioned the Borough Council for a franchise for a sewerage system.

BALTIMORE, MD.—We are officially advised that on Oct. 10 the following bids were received by the Sewerage Commission for constructing sanitary sewers in Walbrook, under Contract No. 1: M. A. TALBOTT & CO., Logansport, Ind., $33,231 (awarded contract); Proctor & Co., 17 Battery Pl., New York, N. Y., $38,476; P. Flanagan & Son, Lexington and Calvert Sts., Baltimore, $44,365; James Keelty, 320 East Oliver St., Baltimore, $48,362.

The contract for constructing building and laboratory for sewage disposal plant, Contract No. 1, has been let to WILLIAM KIRKPATRICK, Baltimore, at $3,750; and for constructing test plant, Contract No. 2, to MALCOLM W. HILL CO., 405 Courtland St., Baltimore, at $6,930, work to be completed in 120 days. Calvin W. Hendrick is Ch. Engr.

RADFORD, VA.—This city has voted affirmatively the proposed $21,000 bond issue for the construction of sewer pipes in the East Ward.

GREENVILLE, N. C.—We are officially advised that about $15,000 will be expended for sewers, and that plans and specifications are now being prepared. J. A. Dunley is Supt. Water and Light Plants.

LAKE CITY, S. C.—We are officially informed that the following are the bids received for constructing storm sewers in Lake City: The SOUTHERN CONSTRUCTION CO., Norfolk, Va., concrete construction (awarded contract), $28,000; brick construction, $32,250; Abee & Edwards, $30,015 and $33,523; Fred Minchell, $40,216; E. Saxton, $37,852; E. J. O'Beirne, $25,961. Estimated cost, $25,461. Charles C. Wilson, Columbia, S. C., is Consult. Engr.

MILLEDGEVILLE, GA.—HOWARD NEELY, Marietta, Ga., has contract, at $18,194, for construction of proposed sewerage system in Milledgeville.

BAINBRIDGE, GA.—Bids are asked until Nov. 8 by E. A. Wimberly, City Clk., for furnishing material and constructing about nine miles of pipe sewers. Probable cost, $35,000. Arthur Pew, of Atlanta, is Engr.

GREENVILLE, ALA.—Bids are asked by Thomas W. Peagler, City Clk., until Nov. 5, for furnishing material and constructing three or four miles of pipe sewers. Arthur Pew, of Atlanta, is Engr. J. J. McMullen is Mayor.

RICHMOND, KY.—The committee recently appointed by the City Council to employ sanitary engineers to prepare plans for sanitary sewer system has engaged Alvord & Burnam, of Chicago, Ill., to do the engineering work. It is proposed to install a septic-tank system, and a $30,000 bond issue will be voted on in November for this purpose. A. Rollins Burnham is Chn.

CANTON, OHIO.—We are officially advised that JOHN SKEELES, of Canton, has secured contract to construct sanitary and storm water sewers. Bids were received Oct. 5.

CINCINNATI, OHIO.—Bids are asked until noon, Nov. 7, by the Board of Public Service, for constructing a 4-ft. sewer in Forest Ave., to cost about $29,924. C. N. Dannenhower is City Engr.; M. J. Keefe is Clk. Bd. Pub. Service.

CLEVELAND, OHIO.—Bids are asked until Nov. 6 by Wm. G. Phare, Village Clk., of Cleveland Heights, at 204 American Trust Bldg., Cleveland, for furnishing material and constructing sewers in portions of Cedar and Coventry Roads; also same time and place for $39,507 sewer bonds. William H. Evers is Engr., 207 The Arcade, Cleveland.

Bids are asked until Oct. 23 by the Board of Public Service for constructing sewers in Gertrude and Hosmer Aves. A. R. Callow is Secy.

DAYTON, OHIO.—The Board of Public Service has directed the clerk to advertise for bids for removing and rebuilding the sanitary sewer pumping station. It will cost about $20,000.

SALEM, OHIO.—Chapin & Knowles, Pittsburg, Pa., have submitted to the Board of Public Service plans and specifications for the proposed sewage disposal plant, which, it is estimated, will cost about $33,000. The plans have been referred to the City Engineer.

COVINGTON, IND.—Bids are asked by the City Council until 6 p. m., Oct. 23, for constructing 7,500 ft. of 12-in. sewers, including catch basins. W. B. La Baw is Consult. Engr., Veedersburg, Ind.

PORTLAND, IND.—The City Council has employed the Riggs & Sherman Co., The Nasby, Toledo, Ohio, to prepare plans for a complete sewer system for this city.

MOORESVILLE, IND.—Bids will be asked soon for the construction of a complete sewer system in this city. The survey is now being made.

LINTON, IND.—The City Council has purchased a 4-acre tract of land to be used as a septic tank for the sanitary sewer system that is to be built here. The work of building a sewer system, to cost $100,000, will be begun in a short time.

DOWNERS GROVE, ILL.—Bids are asked by the Board of Local Improvements until 7:30 p. m., Oct. 24, for the construction of vitrified tile sewers. Charles Mochel is Village Pres.

CISCO, ILL.—We are officially informed that contract to construct drainage system in Cisco has been awarded to H. S. WALTER, of Meldon, Ill., at $14,267. W. J. Day is Engr.

MOLINE, ILL.—The MOLINE HEATING & CONSTRUCTION CO. has secured contract, at $3,480, to install sewer system in Moline.

DES MOINES, IOWA.—Bids are asked until Oct. 20 by the Board of Public Works for constructing a 12-in. vitrified clay pipe sewer in a portion of Maple St.

Bids are asked until Oct. 30 by the Board of Public Works for constructing a 12-in. vitrified clay pipe sewer in a portion of West Eleventh St., requiring about 661 lin. ft.

AMES, IOWA.—Bids are asked until Oct. 22 by the City Council for constructing sewers and sanitary drains in portions of several streets. A. B. Maxwell is City Clk.

WATERLOO, IOWA.—It is reported that plans for a combined sewer system are being made for East Waterloo by C. T. Wilson, City Engr., and A. Marston, of Ames, Iowa, Consult. Engr.

GALENA, KAN.—It is reported that it is proposed to construct pipe sewers at a cost of $14,000. W. H. Dunkin, of Galena, is Engr.; J. T. Botkin is City Clk.

SOUTH OMAHA, NEB.—We are officially advised that the following bids were received Oct. 8 for construction of South Omaha Relief Main Sewer: James Jensen, (A) $61,509, (B) $66,110; R. L. KENNY & CO. (awarded contract), (A) $56,214, (B) $55,054, (C) $64,565, (D) $59,763, (E) $50,973, (F) $50,222, (G) $54,647; Samuel Katz, (A) $60,240, (B) $60,466, (C) $65,981, (D) $66,109, (E) $67,946, (F) $67,946, (G) $62,591; J. O. Corby & Co., (A) $66,523, (B) $72,514; Charles Thompson, (A) $63,622. Andrew Rosewater is City Engr.

SHERIDAN, WYO.—Bids are asked until 8 p. m., Oct. 31, by the Board of Trustees, for constructing extension to the sewer system of Sheridan. E. W. Long is Town Clk.

LITTLE ROCK, ARK.—A new sanitary sewer system will be constructed at the cost of about $450,000; also a sewer will be rebuilt to cost about $100,000. E. A. Dingsley, City Engr.

NORMAN, OKLA.—The plans and specifications for proposed sewer system for Norman have been submitted, and an election for bond issue of about $25,000 will soon be held.

DENVER, COLO.—Bids are asked until Oct. 25 by the Board of Public Works for constructing about 51,400 lin. ft. of 8 to 18-in. sewers. Estimated cost, $54,400. J. B. Hunter is Des. Engr.

LOS ANGELES, CAL.—Bids are asked by the Board of Public Works until 11 a. m., Nov. 19, for the construction of Section 3 of the outfall sewer. The bond required is $100,000.

The Board of Public Works has awarded to J. B. WARE & SON the contract for constructing a vitrified pipe sewer in Western Ave. and other streets, at $3,825.

GILROY, CAL.—A contract has been filed by the Granite Rock Co. for construction of a new sewer system at Gilroy, to cost $26,000.

MONTREAL, QUE.—The City Surveyor gives notice of the intention to construct sewers in Marquette, Milton and St. Paul Sts.

DE LORIMIER, QUE.—The Town Council has awarded contract for the drainage of Iberville, Dandurand, Chapleau and Masson Sts. to T. CHARPENTIER, at $23,000.

TORONTO, ONT.—C. H. Rust, City Engr., has notified the Board of Control that it would be necessary to expend $250,000 or $300,000 on a system of storm sewers, before the condition of householders whose cellars are being continually flooded by sewage backing up can be relieved.

REGINA, SASK.—Bids are asked by F. J. Robinson, Department of Public Works, until Oct. 31, for construction of drain east of Section 33, Township 36, Range 6.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—The following bids were received on Oct. 9 by John McG. Woodbury, Comr. of Dept. of Street Cleaning, New York, for the removal of snow and ice in Manhattan, Brooklyn and Bronx Boroughs Manhattan Borough, Districts 1 to 11—William Bradley, 320 West 86th St.; Districts 1 to 10, 15 cts. to 20 cts. per cu. yd. Uvalde Asphalt Pavement Co., 1 Broadway, Districts 1 to 4, 15 to 22 cts. per cu. yd. Thomas Crimmins Contracting Co., 444 East 69th St., Districts 1 to 11, 14 to 22 cts. per cu. yd., Canavan Bros., 518 West 56th St., Districts 1 to 11, 14 to 23 cts. per cu. yd. P. Reddy, 111th St. and Lenox Ave., Districts 9 10 and 11, 16 and 17 cts. per cu. yd.

Brooklyn Borough: William Bradley, 320 West 86th St., 23 cts. per cu. yd. James H. Holmes, 127 Front St., 25.9 cts.; Newman Construction Co., 1127 Willoughby Ave., Brooklyn, 26.5 cts.; Bracken & MacAveney Co., North Sixth St., Brooklyn, 18.8 cts.; Donovan Sons, 504 Union St., Brooklyn, 75 cts.; Norton & Gorman Contracting Co., 23 cts.; Harlew Construction Co., 997 Jennings St., New York, 17 cts.; W. M. Shannon, 344 East 79th St., New York, 17 cts.

Bronx Borough: William Bradley, 18 cts. per cu. yd.

ELMWOOD, OHIO.—Plans have been prepared by Henry Tozzer, 4211 Turrell St., Cincinnati, for a new sanitary and storm sewerage system, with reduction plant, to cost about $90,000.

DES MOINES, IOWA.—C. O. Dolittle, of Webster City, Iowa, has been completing plans for establishing a garbage crematory here.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ENFIELD, CONN.—The Highway Commissioner has awarded contract to the estate of AMOS T. BRIDGE for constructing telford and macadam road.

NAUGATUCK, CONN.—J. H. McDonald, Highway Comr., has awarded contract for 6,370 ft. of grading to DONAHOE BROS., Middletown, Conn., at $6,943.

NEWTOWN, CONN.—Bids are asked until 5 p. m., Oct. 22, by the Board of Selectmen, for grading and graveling two sections of road in Newtown.

NEW YORK, N. Y.—Bids are asked until noon, Oct. 26, by J. A. Bensel, Comr. of Docks, for laying temporary slag or granite pavement upon a concrete foundation, on a portion of the newly-made land east of the bulkhead wall, at Rector St. section, North River.

JOHNSTOWN, N. Y.—Bids are asked by Frank Bogaski, City Clk., until Nov. 5, for paving with asphalt block about 6,733 sq. yds., and setting curb about 3,142 ft., etc., on North Market St.

SYRACUSE, N. Y.—Bids are asked until 1.30 p. m., Oct. 22, by the Board of Contract and Supply, for grading May and Furnace Aves., Syracuse. George J. Metz is City Clk.

ATLANTIC CITY, N. J.—It is reported that C. W. MATHIS & CO., of Tuckerton, have secured the contract for improving the Hammonton and Atsion Rd., at $30,508. E. D. Rightmire is County Engr., Bartlett Bldg., Atlantic City.

JERSEY CITY, N. J.—The Common Council is reported to have awarded the following contracts: Grading 48th St., to DANIEL DONOVAN, at $5,640, and improving West 36th St., to JAMES J. COGAN, at $8,949.

HOHOKUS, N. J.—It is reported that the contract for constructing 1¼ miles stone road in Hohokus has been awarded to PREAKNESS CRUSHING CO., Preakness Ave., Paterson, N. J., at $12,685. Richard Wanmaker, of Mahwah, is Engr. of Hohokus Township.

PHILADELPHIA, PA.—The BARBER ASPHALT PAVING CO., Land Title Bldg., and the FILBERT PAVING & CONSTRUCTION CO., Pennsylvania Bldg., are reported to have secured the contract for paving with asphalt portions of various streets at prices ranging from $1.55 to $1.60 per sq. yd. Estimated cost of improvement, $200,000.

OAKDALE, PA.—Bids are asked until Oct. 23 by Joseph W. Hunter, State Highway Comr., of Harrisburg, for constructing 15,384 ft. of road, extending from the north line of Oakdale Boro. to a point in Steubenville Pike, in North Fayette Township.

WILMINGTON, DEL.—Bids are asked until Oct. 23 by Francis A. Price, County State Highway Comr., for macadamizing about 1¼ miles of the Foulk Rd.

ROCKVILLE, MD.—Bids are asked until Oct. 23 by the Board of County Commissioners for grading and macadamizing about ¾ miles road, between Barnesville Station and Barnesville. Robert C. Hilton is Clk.

DARLINGTON, MD.—Bids are asked until Oct. 22 by the Board of County Commissioners at Belair, for macadamizing about one mile road between Darlington and Churchville. Hudson Bateman is Clk.

SALISBURY, MD.—Bids are asked until Oct. 23 by the Board of County Commissioners, for grading and macadamizing about two miles road between Salisbury and Snow Hill. Jesse D. Price is Clk.

EGMONT, FLA.—We are officially advised that the Monad Engineering Co., 147 Cedar St., New York, N. Y., on Oct. 1 submitted the lowest bid, at $26,504, for paving post roads and constructing sidewalks. Capt. J. C. Johnson, Fort Dade, Egmont, is Construct. Q. M.

NEW ORLEANS, LA.—Bids are asked by Charles R. Kennedy, City Comptroller, until 1 p. m., Oct. 22, for the following work: Repaving with asphalt Union St., from Carondelet to Baronne Sts.; sub-surface drains, culverts, curbs and gutter bottoms and sidewalk pavements on Union St., from Carondelet to Baronne Sts.; laying Schillinger sidewalks on St. Patrick, Olympia and Iberville Sts., alongside of the Beauregard School.

CHATTANOOGA, TENN.—The WEST CONSTRUCTION CO. has contract, at $4,117, for improving several blocks of streets in the Third Ward. Robert Hooke is City Engr.

MEMPHIS, TENN.—M. LARKIN has secured contract to pave Poplar St., from Garland to Tucker Sts., at $23,735.

CANTON, OHIO.—We are officially advised that TURNBULL BROS., of Canton, have been awarded contract for paving certain streets in this town.

YOUNGSTOWN, OHIO.—Bids are asked until noon, Oct. 24, by the Board of Public Service, for grading Glenwood Ave., from Orange St. to Mahoning Ave. George T. Prosser is Clk. Bd. Pub. Service. F. M. Lillie is City Engr.

BUCYRUS, OHIO.—LEWIS BATTEFELT has been awarded contract for paving Lucas St., his bid being $13,828. Mr. Battefeld's bid covers any brick which the board decides to use, while the other bidders mention different amounts for different brick.

FORT DODGE, OHIO.—E. H. PESCHAU has secured contract for constructing brick sidewalks for the ensuing year.

HAMILTON, OHIO.—The Board of Public Service on Oct. 9 awarded to the THOMAS BRIDGES' SONS. of Wabash, Ind., the contract to pave South Fifth St. The street will be paved with Logan block.

CINCINNATI, OHIO.—Bids are asked until noon, Oct. 22, by the Board of Public Works, for furnishing 7,000 second-class granite blocks. Estimated cost, $5,000.

LAPORTE, IND.—Bids are asked by the Commissioners of Laporte County until Oct. 28 for the construction of a series of macadamized roads in Michigan Township. Henry C. Kruyer is Chn.

INDIANA HARBOR, IND.—WILLIAM ALLBORN & CO., 165 Russell St., Hammond, Ind., have contract for paving three streets, each 38,000 ft. long, with macadam, at Indiana Harbor. Cost, $50,000.

SYRACUSE, IND.—Bids are asked by the Board of Trustees of this town until Oct. 29 for construction of cement sidewalks. George W. Bundy is City Clk.

CROWNPOINT, IND.—Bids are asked by the Commissioners of Lake County until 11 a. m., Nov. 5, for construction of a gravel road in Cedar Creek and West Creek Townships, and until noon, same day, for construction of a gravel road in Cedar Creek Township, and until 1 p. m., same day, for the construction of a gravel road in West Creek Township. Samuel A. Love is Chn.

INDIANAPOLIS, IND.—The Board of Public Works will receive bids for the following street work: Asphalt roadway in 23d St., from Meridian St. to Central Ave.; brick roadway in State Ave., from English to Prospect Sts., and also from South to Merrill st.; bitulithic roadway in Central Ave., from Fall Creek to 34th St.; brick roadway in Audubon Road; brick pavement in University Ave.; gravel roadway in Indianapolis Ave.; brick roadway in Beecher St., from Shelby to Pleasant Sts.; brick roadway in Davidson St., from Massachusetts Ave. to St. Clair St.

RICHMOND, IND.—The Board of Public Works has passed resolutions for the improvement of the following streets: South Eighth St., by the construction of cement sidewalks; Main St., north side, by the construction of cement sidewalks; alley between South, Seventh and Eighth Sts., and the alley between Lincoln and Randolph Sts., by grading, graveling and bouldering the roadways therein.

FLINT, MICH.—Contract has been let to TIM LYNCH, at $20,000, for brick paving. GEORGE NEIL has also contract for paving. D. E. Newcomb is City Clk.

DOWAGIAC, MICH.—ROY WILLIAMS, of Connersville, Ind., is reported to have secured the contract for paving with Logan block portions of Park Pl., Spalding, Beeson and Division Sts., at $15,586.

QUINCY, ILL.—The Board of Local Improvements is stated to have on Sept. 23 received the following bids for paving about 13,132 sq. yds. on Broadway: Henry Rees, $19,394; Ebert & Shanahan, $19,567.

MOUNT CARMEL, ILL.—Contract was let to ROBERTS & CO., Terre Haute, Ind., for paving sundry streets with vitrified brick, on concrete base, at $16,000. W. S. Metzger is Mayor. J. S. Spiker is City Engr.

DOWNERS GROVE, ILL.—Bids are asked until 7.30 p. m., Oct. 24, by the Board of Local Improvements, for constructing about 164,770 sq. ft. of cement sidewalks. Charles Mochel is Village Pres.

APPLETON, WIS.—The HACKWORTHY CONSTRUCTION CO. is reported to have secured the contract for paving the Lake St. bridge, at $5,799. W. H. Holcomb is City Engr.

SUPERIOR, WIS.—FIELDING & SHEPLEY, 216 University Pl., St. Paul, Minn., are reported to have secured the contract for paving with sandstone blocks a portion of Winter St., at $48,484. S. M. White is City Engr.

DES MOINES, IOWA.—Bids are asked until Oct. 30 by the Board of Public Works for repaving with vitrified paving brick on a concrete foundation, portions of West 28th and East Walnut Sts., requiring 1,333 and 9,854 sq. yds., respectively. W. W. Wise is Chn.

WINFIELD, KAN.—CHARLES L. BESLER has secured contract for macadamizing Ninth Ave., at $12,571.

LINCOLN, NEB.—HUGH MURPHY has been awarded contract for 25,300 sq. yds. asphalt, at about $61,200.

KANSAS CITY, MO.—Bids are asked until Oct. 31 by J. L. Phelps, County Clk., for grading and macadamizing portions of Wornall Road and 58th St.

ST. LOUIS, MO.—Bids are asked until Oct. 24 by the Board Public Improvements for furnishing material and constructing walks, steps, retaining walls, etc., on the west side of the new City Hall, requiring 5,545 sq. ft. granitoid walk, etc. A. J. O'Reilly is Pres.

PRESCOTT, ARK.—R. S. O'NEAL has contract for constructing about 90,000 ft. of concrete sidewalk.

OKLAHOMA CITY, OKLA.—The CLEVELAND TRINIDAD ASPHALT PAVING CO. is stated to have secured the contract for paving with asphalt a portion of Tenth St., at $37,546.

COLORADO SPRINGS, COLO.—Bids are asked until noon, Nov. 3, by T. W. Jaycox, State Engr., Denver, for grading and repairing culvert on road from Colorado Springs to Cameron.

DENVER, COLO.—The Board of Public Works on Oct. 3 let the contract for paving 16th St., from Larimer to Wazee St., with asphalt, to the COLORADO PAVING CO., which was the only bidder. It agrees to do the paving for $6,737.30.

GEORGETOWN, WASH.—The contract for the construction of a mile of macadam road to connect the new government road with the county road near the Meadows is reported to have been awarded to PRICE & BELL, at $10,270.

VANCOUVER, WASH.—Bids are asked until 10 a. m., Oct. 29, by the Board of County Commissioners, at Vancouver, for clearing, grading and bridging a portion of State Road No. 8. A. Burnham is Audr. and Clk. of Bd.

CHEHALIS, WASH.—Bids are asked until Nov. 8 by J. E. Stearns, Audr. of Lewis County, for covering about six miles of State Road No. 5 with plank or gravel.

HAMILTON, ONT.—The Board of Works is reported to have decided to expend $5,000 for repairing pavement on Ferrie and Wellington Sts.

WINNIPEG, MAN.—The following improvements have been recommended to the Board of Works: Granolithic walks on Vaughan, Sherbrooke, Arthur Sts. and William Ave., at a cost of $7,222; also paving with asphalt, macadam and cedar block portions of Martha and Quelch Sts. and Buell Ave., and a lane between Sherbrooke and Furby Sts., and one between River and Spadma Aves. Estimated cost, $29,322. Bids for the above work will be received soon. Col. H. N. Ruttan is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LAWRENCE, MASS.—The Lawrence Duck Co. has contracted for the building of a brick mill, five stories high, 190 × 65 ft., to cost about $50,000.

CENTERDALE, R. I.—The contract for a $130,000 weave shed for the Warnicke Mills at Centerdale has been awarded to J. W. BISHOP CO., 107 Foster St., Worcester, Mass. The building will cover 400 sq. ft. of ground.

PROVIDENCE, R. I.—A permit was issued to the Crown Worsted Mills to erect a 2-story brick addition, 43 × 76 ft., to the mill on Oak St., near Agnes St. The contract has been awarded to MATHEWSON & WILLIAMS.

DANBURY, CONN.—The Hawes-Von Gal Co., manufacturers of hats, has awarded the contract for the erection of an addition to its plant. The factory will be four stories high, 40 × 100 ft.

SHELTON, CONN.—The Sidney Blumenthal Co., which is located here, and which manufactures silk velvet and dress goods, has awarded the contract for the erection of two additional factory buildings. The structures will be two stories high, of brick, and one of them will be 36 × 30 ft., and the other 80 × 80 ft. The enlargements will give the concern a capacity of 250 looms.

CENTRAL VILLAGE, CONN.—The Central Worsted Co., of Norwich, has awarded the contract for the new plant which it is to build here. The main factory will be 2½ stories high, 44 × 140 ft., of brick. There will also be a boiler and enginehouse, 10 × 50 ft., of brick, and a brick dye house 40 × 60 ft. Work on the plant will be pushed as rapidly as possible.

ALBANY, N. Y.—THE M. L. RYDER BUILDING CO., 358 State St., has been awarded contract for construction of manufacturing plant for the Avery Portable Lighting Co., on Broadway. The buildings must be completed before winter.

OSWEGO, N. Y.—The Standard Spinning Co. will build an addition at once which will be of brick, five stories high, 107 × 41 ft. It is expected this enlargement will be completed with machinery by Jan. 15 of next year, when 100 more persons will be set to work. The present force numbers 300.

WATERVLIET, N. Y.—The Ludlum Steel & Spring Co., of New Jersey, will remove its plant to this place, and is planning the erection of a number of large buildings of steel construction, on the Spring Street Road, in town of Colorie, on the outskirts of Watervliet. Parker and Edwin Corning, of Albany, are interested in the new concern.

CAMDEN, N. J.—Preparations are being made by the Porcelain Trust for the erection of a large plant on the site recently purchased on State St., near River Road, East Camden. Borings for the foundations have already been made. The plant will cost about $500,000, and when completed will give employment to about 900 skilled workmen, making it the largest industry in East Camden.

ALLEGHENY, PA.—It reported that plans are being prepared for the erection of a $50,000 brick and concrete ... wery.

PALMYRA, PA.—W. L. ... former shoe manufacturer ... a lot of ground at the ea... for a large new hosiery ... is to be three stories high, ... ft., and is to be put up ... weather sets in. Several hu... to be employed.

PHILADELPHIA, PA.— ... 420 Master St., will erect a ... forced concrete factory of fi... tion at Fifth and Master Sts ... $85,000. Bids will probably ... Oct. 25. Wm. Steele & Sons, ... are Archs.

DOYLE & DOAK, 1509 Sa... been awarded the contract to ... brick factory building, of mi... at 809-17 North 19th St., for ... Watch Case Co., for $37,500.

C. S. Adams, Arch., 1233 ... plans ready for bids for a 6-sto... steel box factory, 110 × 1... West Rudolph St. Estimated ...

HARRISBURG, PA.—The H... Corporation has been incorpor... N. Garber as Pres.; R. S. B... and J. M. Kavanaugh is Trea... building will be erected and ... a daily capacity of 25 tons. Al... is to be invested.

NORFOLK, VA.—L. Fuerstein ... associates will erect an ice and ... plant, to be operated by electricity ... a complete electric plant will be ...

ALEXANDRIA, VA.—The Natio... & Formaldehyde Co. has been ... with a capital of $500,000, for the manufacture of formaldehyde generato... and vaccine antitoxin. K. Helphenstine ... and James F. Peyton is Secy. and Treas.

PARKERSBURG, W. VA.—P... Manufacturing Co. has been incorporated with $45,000 capital stock by G. L. McKee, J. M. Ure, R. T. Reep, A. I. Sutton and T. R. Gilbert, of Salem, W. Va., to manufacture regulators, safety devices and other devices used in connection with the production and handling of artificial gas.

DURHAM, N. C.—The Combination Lock Co. has been chartered to manufacture locks, safes and hardware, to buy, sell and deal in metals, woods, stones and minerals, and to do a hardware and manufacturing business, to deal in merchandise and lands, to manufacture and sell furniture. The authorized capital is $50,000. The incorporators are: L. W. Grissom, J. W. Tatum, W. A. Fulford and W. C. Lindsey, of Durham.

JACKSONVILLE, FLA.—A company has been formed with $50,000 capital stock for the manufacture of fuel and other products from peat. Land has been purchased at Julington Creek, 20 miles distant, on which to erect plant, to have a capacity of 30 to 50 tons daily. Robert Ranson is Pres.; temporary headquarters, St. Augustine, Fla.

BESSEMER, ALA.—Eastern capitalists have been in this city for the past few days conferring with local people looking to the erection of a steel plant which will cost from $500,000 to $1,000,000. A company is to be organized at once with $100,000 capitalization to prepare for the big steel concern. It is understood that a new process will be used in the manufacture of steel in case the company succeeds in getting far enough advanced to put up a mill, in which steel will be made from foundry iron instead of from basic as at present.

CHATTANOOGA, TENN.—The Volunteer Disk Plow Co. has increased its capital stock from $50,000 to $100,000. The company now has its plows manufactured, but it is reported that arrangements will be made for establishing its own manufacturing plant.

AKRON, OHIO.—B. F. Shaw, Gen. Supt. of the B. F. Goodrich Rubber Co., has awarded a contract to FRANK B. GILBRETH, of New York, for a reinforced concrete factory building and warehouse. The building is about 75 × 125 ft., five stories high and basement, and is designed to carry a load of 500 pounds a sq. ft. The cost will be about $75,000. The Osborn Engineering Co., of Cleveland, Ohio, are the Designing Engineers.

ELYRIA, OHIO.—The Cleveland & Southwestern Traction Co. has awarded the contract for the erection of a shop here, at a cost of $50,000. E. G. Hindert is Ch. Engr.

FREMONT, OHIO.—The Detroit Model Machine Co. will locate its plant here. A contract has been let for a new brick building on Napoleon St. Various kinds of automatic machines are manufactured by the concern.

YOUNGSTOWN, OHIO.—The Panama Crude Rubber Co., recently organized by George G. Allen, H. E. Andres, F. E. Whittemore, F. H. Waters and E. A. Oviatt, all of Akron, Ohio, will erect a large plant in this city for the manufacture of rubber goods, using raw products from the big plantations in Mexico and Central America.

COLUMBUS, IND. — The Co-operative Creamery Co., W. H. Moore, Pres., will receive bids for the construction of a modern creamery plant.

GOSHEN, IND.—The National Dairy Machine Co., with a capital of $12[illegible],000, will construct and equip a factory to manufacture dairy machines. Charles E. Hastings, L. I. Baker and James Freeman are directors.

INDIANAPOLIS, IND. — The Poindexter Manufacturing Co. has incorporated with $25,000 capital, to erect and equip a manufacturing plant. Robert E. Poindexter, E. J. Hicks and R. F. Davidson are directors.

LINTON, IND.—The Commercial Club is reported to be open for negotiations with manufacturers for location of twelve factories at Linton.

LOGANSPORT, IND. — The Logansport Stock Yards Co. has incorporated to build a complete stock yards plant and a hotel. W. W. Jones, F. G. Eberhart and Wm. Bryans are directors.

RICHMOND, IND.—The DAYTON OHIO CONSTRUCTION CO. has been awarded a contract to construct an exchange building for the Home Telephone Company. The company proposes to install a $100,000 plant in the new building.

RUSHVILLE, IND.—Madden & Co., incorporated, capital $25,000; to construct and equip a plant for an iron and brass foundry. Jas. W. Arbuckle, Stephen Kelley and W. G. Morgan are directors.

TERRE HAUTE, IND.—The Vigo Clay Company has incorporated with a capital of $100,000, to erect, construct and operate an immense clay product plant. Henry Preston, Louis Buenweg and Joseph H. Clay are directors.

WABASH, IND.—The Wabash Artificial Ice Co. has been incorporated with a capital of $50,000, and will construct and equip a modern ice plant and cold storage buildings. Bids will be received soon. Abram Strickler, H. S. Logan and Joseph Hall, directors.

DETROIT, MICH.—George D. Mason, Arch., 80 Griswold St., has awarded to the VINTON CO., 126-146 Woodbridge St. East, general contract for a factory building of reinforced concrete for the Detroit Metal Spinning Co. John J. Delaney is Mgr., 29 St. Antoine St.

CHICAGO, ILL.—David Mehaffey, Arch., Oxford Bldg., 84 La Salle St., will take figures soon on a manufacturing plant to be built on practically an entire block of ground bounded by 48th St. and 48th Place, Oakley Ave. and Leavitt St., for the Illinois Vinegar Manufacturing Co. It will comprise two 6-story buildings, 272 × 125 ft. and 60 × 70 ft., respectively; two 2-story buildings, 103 × 125 ft. and 50 × 125 ft.; one 1-story building, 50 × 65 ft., and a 1-story boiler and engine house, 65 × 86 ft. They will have concrete and steel beam foundations, superstructures of reinforced concrete, with roofs of the same material, brick exteriors, and cost about $200,000.

The Corn Products Refining Co., Rookery Bldg., 217 La Salle St., is negotiating for the purchase of a large tract of land in South Chicago, which is to be improved by the erection of a large plant for the manufacture of glucose and the by-products. The plant will probably have a grinding capacity of 50,000 bushels of corn a day, and cost something like $5,000,000.

Plans are on foot for the organization of a railway equipment company with a capital stock of $100,000,000 to take the place of private car companies in furnishing refrigerator, live stock and other special cars to railroads.

ST. PAUL, MINN.—The Northwestern Shot & Lead Works, 211 Fourth St., will erect a $12,000 factory and warehouse, 50 × 100 ft. on Hyde St. and Fairfield Ave. on the West Side. Alfred H. Wheeler, 816 Globe Bldg., is Arch.

ST. LOUIS, MO.—A new planing mill will be erected by the William G. Frye Manufacturing Co. Estimated cost, $50,000.

Citizens' Ice, Fuel & Cold Storage Co., recently incorporated, has completed organization with Rudolph Schaefer, Pres.; John A. Friedlich, Vice-Pres., and William Schaefer, Secy.; capital stock $200,000. Arrangements will be made at once for the erection of an ice and cold storage plant.

TURELL, ARK.—The Baker Lumber Co., with headquarters at Memphis, Tenn., will reconstruct its plant which was burned recently, causing a loss of $50,000.

SHAWNEE, OKLA.—Announcement has been made that an Eastern company will build a $250,000 cotton mill, using 35,000 spindles and 600 employes, on a tract of ground near this city. Work will begin at once, and the plant will be in use in nine months. Citizens donated twenty acres for a site.

SEATTLE, WASH.—A large saw mill with a daily capacity of 75,000 feet, is to be erected on Cracraft Island, 200 miles up the coast, by American capital. W. A. Hardy, of Ballard, is at the head of the syndicate which is to build the mill.

DOLGEVILLE, CAL.—The National Mfg. Co. has purchased a tract of 7½ acres of land in Dolgeville through the agency of S. J. White & Co., and will at once begin the erection of an extensive plant for the manufacture of stationary, marine and gas engines and ice-making machinery. The company, which was recently incorporated, consists of a merger of three local concerns. It has a capital of $1,250,000, and will be well equipped for this particular line of manufacture.

MONTREAL, QUE.—The Montreal Rolling Mills have plans prepared for a large nut and bolt plant and forging mill.

Jenkins Bros., of New York, valve manufacturers, intend erecting a factory here, cost $200,000.

The Canadian Northern Railway Co. will erect shops here at a cost of about $1,000,000.

THURLOW, ONT.—The Lehigh Portland Cement Co., of Thurlow, capital $1,000,000, has been incorporated by Buffalo, New York and Pittsburg capitalists.

WELLAND, ONT.—The Manson Manufacturing Co. has been incorporated with a capital of $100,000.

TORONTO, ONT.—The Polson Iron Works will erect new buildings at a cost of about $100,000.

CALGARY, ALTA.—An Eastern company is considering the erection of a match factory here, to cost $50,000.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

STORM SEWERS.—Lake City, S. C.—Bids were received, as follows, on Sept. 20, by the Commissioners of Public Works, for construction of a storm water sewer system. Charles C. Wilson, Columbia, S. C., Consult. Engr.: (A) Abee & Edwards; (B) Frederick Minshall; (C) E. Saxton; (D) Southern Contracting Co., for brick construction; (E) SOUTHERN CONTRACTING CO., Norfolk, Va. (awarded contract for reinforced concrete sewers); (F) Abee & Edwards, for concrete construction; (G) E. J. O'Beirne, for concrete construction:

BIDS RECEIVED ON SEPT. 20 FOR BUILDING STORM WATER SEWER SYSTEM AT LAKE CITY, S. C.

			(A)	(B)	(C)	(D)		(E)	(F)		(G)*
For furnishing materials and erecting 2-ring brick conduit (no excavating):											
62″ diameter	400	lin. ft.	$5.20	$6.25	$7.10	$5.75					
60″ "	330	" "	4.90	6.00	6.90	5.50	60″	$5.18	$4.80	60″	$4.50
54″ "	200	" "	4.50	5.50	6.30	5.00	54″	4.37	3.80		3.75
50″ "	500	" "	4.25	5.25	5.90	4.60	48″	3.62	3.50	48″	3.25
44″ "	400	" "	3.60	4.80	5.30	4.00	42″	3.28	3.20	42″	3.00
40″ "	1,000	" "	3.40	4.45	4.90	3.75	40″ / 36″	2.75	2.75		
38″ "	600	" "	3.30	4.20	4.70	3.50	38″	2.87		36″	2.25
34″ "	300	" "	3.00	3.70	4.30	3.00	34″				
32″ "	900	" "	2.90	3.50	4.10	2.90	32″				
For furnishing material and laying T. C. pipe (no excavating):							30″			30″	2.00
30″ diameter	Probably none		2.80	3.40	3.10	2.60	30″	2.45	2.25		
27″ "	1,300	lin. ft.	2.25	1.56	2.55	2.24		1.87	1.75		1.75
22″ "	600	" "	1.05	1.12	1.10	1.25		....	....		.90
20″ "	300	" "	.90	.92	.90	.90		....	....		.85
18″ "	600	" "	.70	.70	.70	.80		....	....		.70
15″ "	1,200	" "	.50	.54	.60	.70		....	....		.50
12″ "	1,250	" "	.35	.34	.40	.50		....	....		.35
4″ "	300	" "	.10	.10	.16	.14		....	....		.10
Terra cotta pipe, f. o. b. cars at Lake City, S. C.:											
30″ diameter	Probably none		2.50	....	....	....		....	....		2.50
27″ "	1,300	lin. ft.	2.35	....	....	....		....	....		2.00
22″ "	600	" "	.85	....	....	....		....	....		.82½
20″ "	300	" "	.70	....	....	....		....	....		.67½
18″ "	600	" "	.52	....	....	....		....	....		.51
15″ "	1,200	" "	.40	....	....	....		....	....		.37½
12″ "	1,250	" "	.26	....	....	....		....	....		.25½
4″ "	300	" "	.06	....	....	....		....	....		.06
Terra cotta branches, f. o. b. cars at Lake City, S. C.:											
12″ on 30″	Probably none		10.00	....	9.50	....		....	....		....
12″ " 27″	2		8.00	....	8.00	....		....	....		....
12″ " 22″	4		4.00	....	3.00	....		....	....		....
12″ " 20″	4		3.35	....	2.50	....		....	....		....
12″ " 18″	2		2.50	....	2.00	....		....	....		....
12″ " 16″	Probably none		1.85	....	1.60	....		....	....		....
12″ right angle bend	18		1.00	....	.75	....		....	....		....
4″ right angle bend	5		.20	....	.25	....		....	....		....
For furnishing materials and erecting catch-basins and setting covers and rings:											
Style No. 1	8		12.50	20.00	12.00	25.00		....	....		12.00
Style No. 2	13		15.00	20.00	12.00	25.00		....	....		12.00
Style No. 3	15		20.00	20.00	12.00	25.00		....	....		12.00
For catch-basin covers and ring, f. o. b. cars Lake City, S. C.:											
Style No. 1	8		....	....	....	....		....	....		....
Style No 2	13		....	....	....	....		....	....		....
Style No. 3	15		....	....	....	....		....	....		....
For furnishing materials and erecting manholes and setting covers:											
3′ 0″ diameter 4′ to 6′ deep	6		25.00	40.00	29.00	29.00		....	....		23.25
3′ 0″ " 6′ " 8′ "	8		30.00	45.00	38.00	37.00		....	....		30.00
3′ 2″ " 6′ " 8′ "	2		32.50	50.00	40.00	39.00		....	....		30.00
3′ 4″ " 6′ " 8′ "	2		32.50	50.00	41.00	40.00		....	....		31.00
3′ 8″ " 6′ " 8′ "	1		35.00	55.00	43.00	42.00		....	....		31.50
4′ 0″ " 8′ " 10′ "	1		40.00	60.00	55.00	45.00		....	....		32.25
4′ 2″ " 10′ " 12′ "	1		45.00	70.00	67.00	55.00		....	....		36.75
4′ 6″ " 8′ " 10′ "	1		40.00	70.00	58.00	58.00		....	....		32.25
5′ 0″ " 10′ " 12′ "	1		45.00	80.00	72.00	65.00		....	....		36.75
5′ 2″ " 8′ " 10′ "	1		45.00	80.00	62.00	55.00		....	....		36.75
For combination manhole and catch-basin, cover and ring, f. o. b. cars Lake City, S. C.:											
Style No. 1	9		....	....	....	....		....	....		....
Style No. 2	3		....	....	....	....		....	....		....
Style No. 3	12		....	....	....	....		....	....		....
Per lin. ft. for trenching and back filling for T. C. pipe, 6 ft. deep or less	2,200	lin. ft.	.15	.30	.75	.15		....	....		.15
More than 6′, not greater than 8′	1,100	" "	.25	.50	.80	.17½		....	....		.17½
More than 8′, not greater than 10′	200	" "	.40	.70	.80	.20½		....	....		.20½
More than 10′, not greater than 12′	100	" "	1.00	.92	1.00	.25		....	....		.25
For excavating and backfilling trenches for brick condt. 4′ 2″ to 6′ 8″ wide, 6′ deep or less	751	cu. yds.	.40	.70	.70	.30		....	....		.25
More than 6′, not greater than 8′	482	" "	.50	.80	.75	.35		....	....		.30
More than 8′, not greater than 10′	4,113	" "	.75	.95	.85	.40		....	....		.40
More than 10′, not greater than 12′	1,900	" "	.75	....	.90	.45		....	....		.45
For cleaning, deepening and shaping the present ditch at X	686	" "	.50	.40	.70	.20		....	....		.20
Same for ditch at ll. n. n. to outlet	830	" "	.50	.40	.60	.20		....	....		.20
Same for ditch at C to D	920	" "	.50	.40	.60	.20		....	....		.20
Same for various small ditches, 12,000 lin. ft	1,200	" "	.50	.40	.75	.25		....	....		.25
For excavating drainage canal at A. B. C., 6 ft. deep or less	3,000	" "	.25	.40	.45	.25		....	....		.25
More than 6′, not more than 10′	2,500	" "	.40	.55	.48	.30		....	....		.30
More than 10′, not more than 12′	3,500	" "	.50	.75	.50	.30		....	....		.30
Totals			$33,523	$40,216	$37,852	$32,250		$28,000	$30,015	Cost,	$25,461
										Profit,	500
										Price bid,	$25,961

*E. J. O'Beirne bid $500 plus the actual cost. The figures show the cost estimated by Chas. C. Wilson.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

LEVEE.—Pendleton, Ore.—The contract for rebuilding the levee in this city has been let to H. G. NEWPORT, of Echo, Ore. Cost, $15,000.

CEMENT.—Yuma, Ariz.—The Secretary of the Interior has authorized the Reclamation Service to purchase in open market 5,000 bbls. of cement for use in the Yuma irrigation project, Ariz.

TEST BORINGS.—New York, N. Y.—Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., Oct. 25, for making test borings at the site of the Henry Hudson Memorial Bridge, over Spuyten Duyvil Creek.

SUBWAY.—Reading, Pa.—Bids are asked until 2 p. m., Oct. 23, for construction of the subway under the Philadelphia & Reading Ry. tracks at Spring St., instead of Oct. 17. Elmer H. Beard, City Engr. (Advertised, Engineering News.)

CEMENT.—Garden City, Kan.—The Secretary of the Interior has awarded contract to the KANSAS PORTLAND CEMENT CO., of Iola, Kan., for furnishing 5,000 bbls. of Portland cement for the Garden City irrigation project in western Kansas. The bid of the above named company, at $1.60 per bbl., f. o. b. cars at Iola, was the lowest received, transportation considered.

CANAL WORK.—Mitchell, Neb.—The Secretary of the Interior has executed a contract with MARCUS E. GETTER, of Mitchell, Neb., for construction of ten miles of earthwork, distributing system, Interstate Canal, North Platte irrigation project, Neb. Mr. Getter's bid was $5,649.

BULKHEAD.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. of Docks, until noon, Oct. 26, for furnishing all the labor and materials required for furnishing and delivering granite stone for bulkhead or river wall—class I., about 15,363 ft. of headers and stretchers; class II., about 2,800 cu. ft. of coping stone.

CEMENT.—St. Andrews, Man.—Bids are asked by Fred. Gelinas, Secy. Public Works, until noon, Oct. 25, for the supply of 10,000 bbls. of Portland cement, to be delivered in barrels or bags at St. Andrews, Man., as follows: 5,000 bbls. before April 1, 1907, and 5,000 bbls. during summer of 1907, when called for.

CANAL WORK.—Williston, N. Dak.—The Secretary of the Interior has executed a contract with HENRY C. DE LANEY, of Williston, N. Dak., for $81,867, for the construction and completion of canals and structures under the Williston irrigation project, N. Dak. The work involves the excavation of about 220,000 cu. yds. of earth, and furnishing labor and materials for various structures requiring about 40,000 ft. B. M. of lumber, and 1,000 cu. yds. of concrete.

DITCHES.—Brookings, S. Dak.—P. J. Murphy, County Audr., states that all bids opened on Oct. 6 for constructing the Sioux Valley drainage ditches have been rejected, as the same did not conform with specifications. New bids will be received on April 12, 1907.

WHARF.—Ft. Orchard, Wash.—A contract has been awarded the INTERNATIONAL CONTRACT CO., of Seattle, for the construction of a 500-ft. wharf, where vessels can land to load explosives. The wharf will cost, when completed, $14,410. Work will be started at once.

PORTLAND CEMENT.—Lascruces, N. Mex.—Bids are asked until Nov. 1, 3 p. m., by the U. S. Reclamation Service, for furnishing 2,500 bbls. of Portland cement, f. o. b. cars at manufacturer's shipping point. Thos. Ryan, Acting Secy. Dept. Interior. (Advertised, Engineering News.)

CRANE.—Charleston, S. C.—Bids are asked until 11 a. m., Nov. 3, by Mordecai T. Endicott, Ch. Bureau Yards and Docks, Navy Dept., Washington, D. C., for a crane runway at the Navy Yard, Charleston, S. C. Specifications are on file at office of Engineering News, New York.

LEVEE.—Charleston, Mo.—Bids are asked until Oct. 27, by Wm. Holloway, Secy., Bd. Directors Levee Dist. No. 1, for constructing about 4½ miles levee in this district, containing about 300,000 cu. yds. earth, and for the enlargement and repair of about three miles of levee, containing about 75,000 cu. yds. earth.

ZINC AND LEAD MINING.—Chicago.—Henry A. Allen, First National Bank Bldg., Chicago, recently employed by Chicago capitalists to make examination of several zinc and lead properties in the Wisconsin field, has reported favorably on what is known as the "Blewitt Farm," and a company is now formed, consisting of Chicago capitalists, known as the Blewitt Mining Co. Mr. Allen is getting up plans for a 200-ton concentrating mill and for other machinery to make a complete mining outfit and has already started work on development.

TIMBER FLOORING.—New York, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., Nov. 1, for the construction of timber flooring in the trolley railway tracks of the Williamsburg (new East River) Bridge, over the East River, between the Boroughs of Manhattan and Brooklyn.

STEEL BARS.—Lascruces, N. Mex.—Bids are asked by the U. S. Reclamation Service, at Lascruces, until 2 p. m., Nov. 15, for furnishing about 55,000 lbs. of steel bars for reinforcement of concrete; about 12,800 lbs. of structural steel, and about 9,000 lbs. of c.-i. gates, guides, stands, etc. Thos. Ryan, Acting Secy. Dept. Interior. (Advertised, Engineering News.)

CEMENT.—Hazen, Nev.—In response to requests for proposals for furnishing 2,500 bbls. of Portland Cement for use on the Truckee-Carson irrigation project, Nevada, the following bids were received: Pacific Portland Cement Co., Tolenas, Cal., $2 per bbl., f. o. b. cars, company's mill; Portland Cement Co. of Utah, Ltd., Salt Lake City, Utah, $2.75 per bbl., f. o. b. Salt Lake City.

DITCH.—Danville, Ill.—Bids are asked until 10 a. m., Oct. 24, by E. S. Boudinot, District Engr., Danville, for construction of a dredge ditch about 10,700 ft. long, and containing about 13,482 cu. yds. of excavation, and also one open lateral about 2,600 ft. long, containing about 3,207 cu. yds. of excavation; and also, for the laying of a tile ditch about 2,700 ft. long, of 12-in. drain tile.

STEAMER.—Albany, N. Y.—The Hudson River Day Line has awarded contract for the construction of a new steamer to the T. S. MARVEL SHIPBUILDING CO. of Newburgh, N. Y. Estimated cost of steamer when completed, is $1,000,000. It will be christened the "Robert Fulton," and must be ready for season of 1907. The hull will be of steel. Frank E. Kirby, Detroit, Mich., is Arch.

DRAINS.—Sac City, Iowa.—Bids are asked until Oct. 30, by the Joint Board Supervisors of Sac and Calhoun Counties, at the office of J. J. Harter, Audr. Sac County, at Sac City, for constructing a joint county drain in Cedar Township, Sac County, and Garfield Township, Calhoun County, requiring 32,593 ft. 30, 24, 22, 18, 15, 12, 10, 8 and 7-in. tile 18,800 cu. yds. flood water drain, Y's, etc.

LIGHT VESSEL.—Washington, D. C.—Bids are asked by the Light-House Board, Washington, D. C., until noon, Nov. 3, for the construction and delivery of one single-screw steel steam light-house tender, and one twin-screw steel steam light-house tender for the Eleventh light-house district. Bids are also asked by this Board, until noon, Nov. 10, for the construction and delivery of single screw steel steam light-vessel No. 88.

METAL.—Washington, D. C.—Bids were opened Oct. 16, at the Bureau of Supplies and Accounts, Navy Dept., for a quantity of metal, under Schedule 167, as follows: About 80 tons steel, steel bars and billets, etc., for Mare Island Yard—Richard H. Grey, East Oakland, Cal., $11,576; Manhattan Supply Co., New York, $10,447; Bethlehem Steel Co., East Bethlehem, Pa., $10,442. About 163 tons forgings, shafts, connecting rods, etc., for Mare Island, Cal.—Manhattan Supply Co., $82,774; Bethlehem Steel Co., $87,657. About 39,763 condenser tubes, for Mare Island—Benedict & Burnham Mfg. Co., New York, $12,167; Holbrook, Merrill & Stetson, San Francisco, $12,088; Pacific Hardware & Steel Co., New York, $12,327.

DITCHES.—Portland, Ore.—Bids were received on Oct. 1 by the U. S. Reclamation Service, Portland, for building main and lateral ditches of the distributing system, Umatilla Project, Oregon. The work is divided into two nearly equal schedules, and includes about 315,000 cu. yds. of earth and rock excavation. The bids were as follows: Thomas Jaques, Pilot Rock, Ore., Schedule 1, $20,212; Puget Sound Bridge & Dredging Co., Seattle, Wash., (1) $29,535; Schedule 2, $29,850; Newport Land & Construction Co., Echo, Ore., (1) $30,112, (2) $30,750; E. T. Johnson Co., Portland, Ore., (1) $31,020; Seaman Davis Co., Portland, Ore., (1) $33,000, (2) $34,000; Naylor-Norlin Co., Ltd., Lewiston, Idaho, (1) $33,000, (2) $34,500; Standard Const. Co., Portland, Ore., (1) $41,250, (2) $37,500.

CANAL WORK.—Mitchell, Neb.—The Secretary of the Interior has executed a contract with FLOWER & TWING, of Morrill, Neb., for the work provided in Schedule 4, earthwork of distributing system, North Platte irrigation project, Neb. The bid of the contracting company for this work was $11,711, and the contract calls for the earthwork on about ten miles of laterals.

The Secretary of the Interior has executed a contract with the DEADWOOD CONSTRUCTION CO., of Deadwood S. Dak., for the construction of Schedule 5, earthwork of distributing system, Interstate Canal, North Platte irrigation project, Neb., at $12,615. Schedule 5 consists of the earthwork on about 14 miles of laterals, involving the excavation of about 66,300 cu. yds. of material.

U. S. POSSESSIONS AND CUBA

The names of parties awarded contracts are printed in capital letters.

EARTH SPREADERS.—Panama.—The Isthmian Canal Commission announces that the opening of bids for ten earth spreaders, under Class 1, Circular No. 333, has been postponed from 10.30 a. m., Oct. 16, to the same time, Oct. 23.

UNLOADER PLOWS.—Panama.—But one bid was received at the Isthmian Canal Commission, Washington D. C., for 14 unloader plows, under circular 333, class 2, viz.: that of the Marion Steam Shovel Co., Marion, Ohio, for $14,980; time, 60 to 120 days.

ENGINEERING SUPPLIES. — Panama. — Bids are asked until 10.30 a. m., Nov. 1, for engineering supplies, as follows: One dipper dredge, 5 yds.; 24 horizontal return tubular boilers, 84 ins. x 18 ft., with four sheet-steel smoke-boxes, four sheet-steel guyed stacks, two duplex piston-pattern boiler feed pumps, etc.; 2,900,000 ft. B. M. lumber, various sizes; 1,000 stringers and 2,900 sways; 11,000 ft. crucible steel rope; saw grinders and hydraulic screw punches. Specifications are on file at office of Engineering News, New York.

SHIP CANAL.—Panama.—Bids are asked by the Isthmian Canal Commission until noon, Dec. 12, for completing construction of the ship canal upon the Isthmus of Panama, between the Caribbean Sea and the Pacific Ocean. Details were given in the editorial section of Engineering News on Oct. 11.

COAL-HANDLING PLANT.—Guantanamo, Cuba.—The following are the bids opened on Oct. 3, by the Bureau of Equipment, Navy Dept., for a coal-handling plant at the U. S. Naval Coal Depot, Hospital Cay, Guantanamo: Robbins Conveying Belt Co., New York, N. Y. (two bids), $68,925 and $67,800; W. L. Miller, Boston, Mass., $91,900; Hosher-Platt Co., New York, N. Y. (four bids), $65,110 to $67,984; Wellman-Sieber-Morgan Co., Cleveland, Ohio, $131,240; Dodge Coal Storage Co., Philadelphia (two bids), $242,955 and $124,035; Snare & Triest Co., New York, N. Y. (two bids), $67,600 and $58,000; The Scofield Co., Philadelphia, Pa. (two bids), $69,810 and $57,245.

CIVIL SERVICE EXAMINATIONS

TOPOGRAPHIC DRAFTSMAN.—Panama.—An examination will be held by the U. S. Civil Service Commission on Nov. 7-8, to secure eligibles to the position of Topographic Draftsman, Dept. of Construction and Engineering, on the Isthmus of Panama, at salaries of $100 or $125 a month, the usual entrance salary being $100 a month. The Commission has experienced considerable difficulty in securing eligibles for this position, and qualified persons are urged to enter this examination. The Commission will furnish drawing paper, but competitors must bring pencils, ink, pens, a correct scale 40 or 400 feet to the inch, and such other instruments as they consider necessary. As a result of this examination it is desired to secure eligibles who are good draftsmen and who have had theoretical or practical experience in civil or mechanical engineering. Competitors who attain a rating of less than 70 per cent. in the drawing test will not be eligible for appointment. Persons who passed or failed in the topographic draftsman examination for any branch of the service within the past year may, upon a new application in complete form and in due time, enter this examination, if they comply with the requirements. Age limit, 20 to 45 years on the date of the examination. Application Form No. 1312.

CIVIL ENGINEER AND SUPERINTENDENT OF CONSTRUCTION.—Washington, D. C.—The U. S. Civil Service Commission will hold an examination on Oct. 30-31, to secure eligibles to fill a vacancy, at $1,500 a year, in the Quartermaster's Department at Large, at each of the following named places, and vacancies as they may occur in any branch of the service requiring similar qualifications: Fort Douglas, Utah; Fort Hunt, Va.; Fort St. Philip, New Orleans, La.; Fort Bayard, N. Mex., and Fort Thomas, Ky. As the Commission has experienced considerable difficulty in securing eligibles for this position, the number resulting from the examinations of July 5 and Sept. 12 being insufficient to meet the needs of the service, qualified persons are urged to enter this examination. The Department states that appointees in this position must have had, in addition to a good scientific education, some practical experience in the branches of civil engineering covering construction of roads, laying out of grounds, sewer and water lines, concrete walks, etc., and especially in building construction. The duties required of appointees are so important that men, however well grounded in theory and office work, can not perform them satisfactorily unless they have had practical experience as builders, contractors, or supervisors of the class of work done under the direction of the Quartermaster's Department. Age limit, 20 years or over on the date of the examination. Application Form No. 1312.

TRADE PUBLICATIONS.

CONCRETE MIXER.—Municipal Engineering & Contracting Co., Railway Exchange, Chicago, Ill. Paper: 10 x 7 ins.; pp. 20; illustrated.

The Chicago improved cube concrete mixer is described. Many illustrations of the different styles of machines manufactured are given.

SEWER EXCAVATOR.—Municipal Engineering & Constructing Co., Railway Exchange, Chicago, Ill. Paper: 10 x 7 ins.; pp. 10; illustrated.

This publication is largely illustrative, showing the Chicago sewer excavator in operation. There is a short paragraph on the advantages of this excavator.

BOILERS.—D. Ahern, 263 South St., New York City. Paper: 6 x 8 ins.; pp. 16; illustrated.

The Ahern boilers described in this pamphlet are of the tubular type, the tubes crossing each other over the fire at an angle of 45°. A special form of boiler used for house heating is also described in the pamphlet.

ELECTRIC GENERATORS. — Crocker-Wheeler Co., Ampere, N. J. Bulletin No. 69. Paper: 7½ x 10 ins.; pp. 4; illustrated.

Small generators for direct connection to steam or gas engines are taken up in this bulletin. The outputs run from 1½ KW. to 19 KW., and meet the demands from isolated plants and residences.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 138.

INLETS AND DRAINS.

Atlantic City, N. J.

Sealed bids or proposals, endorsed "Proposals for Constructing Inlets and Drains," with the name of the person or corporation making the bid, will be received by the City Clerk, at Council Chambers, in the City Hall, at the hour of 8.30 o'clock P. M., Monday, October 29, 1906, during a session of City Council.

The City Engineer's estimate of the work to be done under the above title, by which the bids will be tested is the furnishing and setting of:

- 49 cast-iron inlet frames and grates, 2 ft. long.
- 136 cast-iron inlet frames and grates, 3 ft. long.
- 170 cu. yds. of brick masonry.
- 25 cu. yds. of concrete (not included in other items).
- 6,700 ft. B. M. of long-leaf yellow pine lumber, merchantable inspection (not included in other items).
- 5,000 ft. B. M. of Virginia pine or short-leaf yellow pine lumber, square edged inspection (not included in other items).
- 79 lin. ft. of 10-in. vitrified clay pipe, including board foundation and cradle blocks.
- 100 lin. ft. of 10-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
- 233 lin. ft. of 12-in. vitrified clay pipe, including board foundation and cradle blocks.
- 54 lin. ft. 12-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
- 715 lin. ft. of 14-in. vitrified clay pipe, including board foundation and cradle blocks.
- 924 lin. ft. of 14-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
- 715 lin. ft. of 18-in. vitrified clay pipe, including board foundation and cradle blocks.
- 889 lin. ft. of 18-in. vitrified clay pipe, including board foundation, cradle blocks and concrete envelope.
- 420 lin. ft. of 14-in. cast-iron water pipe, including board foundation, cradle blocks and concrete.
- 330 lin. ft. of 18-in. cast-iron water pipe, including board foundation, cradle blocks and concrete.
- 8 14-in. cast-iron Tees, 8-in. outlets with plugs, including board foundation, cradle blocks and concrete.
- 5 18-in. cast-iron Tees, 8-in. outlets with plugs, including board foundation, cradle blocks and concrete.
- 1,900 cu. yds. of excavation (not included in other items) to specified lines above elevation +6.00 ft. City Datum.
- 1,143 cu. yds. of excavation (not included in other items) to specified lines below elevation +6.00 ft. City Datum.

No proposal will be received or considered unless accompanied by a certified check upon a National or State Bank or Trust Company, drawn to the order of Albert Beyer, City Treasurer, for the sum of Five Thousand Dollars ($5,000).

Surety Company bond will be required in the sum of Ten Thousand Dollars ($10,000).

The City Council reserves the right to reject any or all bids if it shall deem it for the public interest so to do.

Blank forms of Proposal, Notice to Contractors, Contract and Specifications, and further information, if required, can be obtained upon application at the office of the City Engineer, Room 622, Bartlett Building.

WALTER J. BUZBY,
JAMES B. REILLY,
JOHN S. WESTCOTT,
SAMUEL S. PHOEBUS,
THOMAS H. THOMPSON,
Street Committee of City Council.
J. W. HACKNEY, City Engineer. 16-1t

SEWERS.

BOSTON, COMMONWEALTH OF MASSACHUSETTS.—Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2.30 P. M. of Friday, November 9, 1906, for constructing in rock and earth tunnel, Section 85 of the extension of the High Level Sewer, South Metropolitan System, in Brighton, in accordance with the forms of contract and specifications to be furnished by the Board. [illegible] particulars are estimated to be as [illegible] Length, 6,350 feet; inside diameter [illegible], 69 inches by 72 inches; 300 cubic [illegible] of Portland brick masonry; 7,000 cubic [illegible] of concrete masonry in tunnel. The in[illegible] the tunnel is from 28 feet to 60 feet [illegible] the street surfaces. Plans can be se[illegible] specifications and forms of contract [illegible] obtained at the above office. The Bo[illegible] serves the right to reject any or all bi[illegible] HENRY H. SPRAGUE, HENRY P. WAL[illegible] JAMES A. BAILEY, JR., Metropoli[illegible]ter and Sewerage Board. WILLIAM [illegible] BROWN, Engineer Sewerage Works. [illegible]LIAM N. DAVENPORT, Secretary. 16-2t

Department of Pu[illegible] Works,
Bureau of [illegible]ration,
Office, 71[illegible] Hall,
Philadelphia, Octob[illegible] 1906.

Sealed proposals, endorsed "[illegible] for Filtering Materials," and addressed [illegible] the undersigned, at the office above me[illegible]d, will be received until 12 o'clock, noon [illegible] November 14, 1906, for Contract No. 7[illegible] Filtering Materials for the Queen Lane C[illegible]gent of Torresdale Filters.

Specifications, drawing and bi[illegible] forms upon which bids must be made [illegible] be obtained at Room 712, City Hall, Philadelphia.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1899 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

JOHN R. HATHAWAY,
16-2t Director.

SITUATIONS OPEN

WANTED.—A competent railroad draftsman, experienced in track layouts, masonry plans, etc. College graduate preferred. Give age, education, experience, reference, salary expected and sample of work. Address A. R. RAYMER, Assistant Chief Engineer, The Pittsburgh & Lake Erie R. R. Co., Pittsburgh, Pa. 16-tf

WANTED.—A reliable and competent man to quarry and crush stone by the cubic yard. Address "B. B. 16," Engineering News, New York. 16-2t

WANTED.—By railway in the middle south two or three experienced draftsmen on mapping and general railway work. Give age, experience and nationality, with small sample of free-hand lettering. Address "C. B. 16," Engineering News, New York. 16-2t

FOR SALE

FOR SALE.

Carson-Lidgerwood Cableway

300-ft. span; complete with engine; towers; travelers; steel tubes. $1,550.00

Address
BARBER ASPHALT PAVING COMPANY,
Land Title Building,
Philadelphia. 15-4t

FOR SALE.

Lidgerwood Cableway

375-ft. span, 4½ tons capacity; complete with towers and engines. $1,750.00
Another without engine. $1,000.00

Address
BARBER ASPHALT PAVING COMPANY,
Land Title Building,
Philadelphia. 15-4t

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